

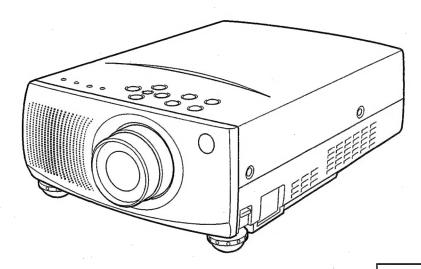
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PLV-30

U.S.A., Canada, Europe, Asia, Africa U.K

Original Version



Chassis No. M4G-3000

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

- An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
- Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	7.44" x 2.93" x 11.42" (189mm x 74.5mm x 290mm)
Net Weight	5.51 lbs (2.5 kg)
LCD Panel System	0.7" TFT Active Matrix type, 3 panels
Panel Resolution	800 x 600 dots
Number of Pixels	1,440,000 (800 x 600 x 3 panels)
Color System	6 color system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
High Definition TV SIgnals	480i, 480p, 575i, 575p, 720p. 1035i and 1080i
Scanning Frequency	H-sync. 15 ~ 80kHz, V-sync. 50 ~ 100Hz
Projection Image Size (diagonal)	Adjustable from 30" to 200"
Horizontal Resolution	500 TV lines
Projection Lens	F 2.0 ~ 2.3 lens with f 28mm ~ 33.6mm Manual zoom and focus
Throw Distance	4.6' ~ 26.3' (1.4m ~ 8.0m)
Projection Lamp	120watt type
AV Input Jacks	RCA Type x 3 (Video/Y, Cb/Pb, Cr/Pr) and Mini DIN 4 pin x 1(S-Video)
AV Audio Input Jack	Mini Jack (stereo)
Computer Input Jack	(VGA) HDB15 Terminal x 1
Computer Audio Jack	Mini Jack (stereo)
Service Port Jack	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo)
Internal Audio Amp.	1W RMS (monaural)
Built-in Speaker	1 speaker, 1.57" x 1.18" (40mm x 30mm)
Feet Adjustment	0° to 7.6°
Voltage and	AC 100 ~ 120V (2.2A Max. Ampere), 50/60Hz (The U.S.A and Canada)
Power Consumption	AC 200 ~ 240V (1.1A Max. Ampere), 50/60Hz (Continental Europe and The UK.)
Operating Temperature	41°F ~ 95°F (5°C ~ 35°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
Remote Control Transmitters	Wireless Remote Control, batteries AA, UM3 or R06 Type x 2

• The specifications are subject to change without notice.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

■ Note on Servicing

When you carry out the electrical, optical service adjustment or repairing with cabinet top removal, it should be done under the service conditions listed below. If you can not keep the one of following conditions, the projector turns off automatically by operating the protection circuit.

Service Conditions:

Operating Temperature : 41°F ~ 81°F (5°C ~ 30°C)

: Maximum

Fans Control

AC Power Supply : 100 ~ 120V or 200V ~ 240V

To set the Fan Control to maximum, follow the Fan Control Setting Procedure below;

Fan Control Setting Procedure

- 1. Enter to the service mode.
- 2. Select adjustment item no.<29> and change data value to <0> to <1>. Now the cooling fans operate in maximum.
- 3. Exit from the service mode.

After finishing the works, restore the service data to <0> following to the steps 1 to 3.

* Please refer to the "Service Adjustment Menu Operation" described on page 23 for how to entering the service mode and changing the service data.

■ Adjustments after Parts Replacement

: Adjustment necessary O : Check necessary

					Disass	embly	/ Rep	laced Part	s	
		LCD/ Prism Ass'y	Integrator lens	Relay Lens	Pola R	arized g	lass B	Power Board	Component Board	Main Board
	Integrator Lens Adjustment	0	•							
nts	Relay Lens Adjustment	0	***************************************	•						***************************************
Optical Adjustments	Contrast Adjustment		• • • • • • • • • • • • • • • • • • • •	***************************************						
Opt	R-Contrast adjustment				•					
Adj	G-Contrast adjustment			\$4000000000000000000000000000000000000		•		MARIO (**************************************
	B-Contrast adjustment			-			•			
	Output voltage adjustment							•		
	FAN voltage adjustment								•	•
	PC offset adjustment									•
	PC gain adjustment									• .
ts	Component gain adjustment									•
Je l	AV gain adjustment									•
stm	NRS Adjustment			-						•
무	Signal center adjustment									•
Electrical Adjustments	PC Gamma off video adjustment									•
rica	PC/AV signal adjustment-1									
ect	PC/AV signal adjustment-2									•
	S/H clock adjustment									•
	Common center adjustment	•			,					•
	White balance adjustment	0								0
	Black balance adjustment	0.			-			***************************************	·	0

■ Circuit Protections

This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

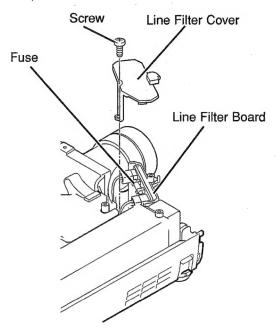
It should be used the specified fuse as follows;

Fuse Part No.: 423 022 2102 TYPE T4.0AH 250V FUSE LITTLE FUSE INC. TYPE 215004

How to replace the fuse

- Remove the cabinet top and main board following to "Mechanical Disassemblies".
- 2. Remove a screw and the line filter cover upward.
- 3. Remove the fuse from fuse holder.

To install the fuse, take reversed step in the above.



Thermal switch

There is the thermal switch (SW902) inside of the projector to prevent the internal temperature from rising abnormally. When the internal temperature reaches near 100°C, turn off the AC main power supply automatically. The thermal switch is not reset to normal automatically even if the internal temperature becomes normal. Reset the thermal switch following procedure.

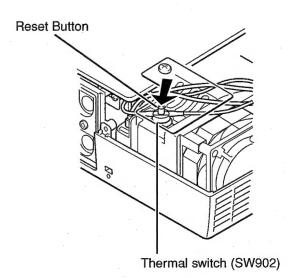
Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.

How to reset the thermal switch

- 1. Remove the cabinet top following to "Mechanical Disassemblies".
- 2. Press the reset button on the thermal switch.

CAUTION:

Before press the reset button, disconnect the AC cord from the projector.



Warning temperature and power failure protection

The TEMP WARNING indicator flashes red and the projector will automatically turn off when the internal temperature of the projector exceeds the normal temperature or when stopping cooling fans or when the internal power supply lines are failed.

Check the following possible causes and wait until stopping the TEMP WARNING indicator flashing.

Possible causes

- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

If the TEMP WARNING indicator still continues to flash, there may be defects on cooling fans or power supply circuits. Please check fan operation and power supply lines referring to the "Power Supply Lines Chart".

Air filter care and cleaning

The removable air filters prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

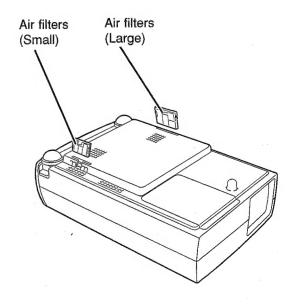
To clean up the air filters, follow the cleaning procedure below:

- Turn the power off, and disconnect the AC power cord from the AC outlet.
- Turn the projector up side down and remove 2 air filters (Large and Small) by pulling the latches of them upward.
- Clean the air filters with brush or wash out the dust and particles.
- Replace each air filter properly. Make sure that the air filters are fully inserted.

CAUTION:

Do not operate the projector with the air filter removed. The dust is stuck on the LCD panel and the mirror, and it may spoil the fine picture image.

Do not put the small parts into the air filter intake vents. It result in the malfunction of the projector. The air filter is small parts. Take care that children don't eat or swallow it.



RECOMMENDATION

We recommend to avoid dusty, smoky place for operating the projector. Using in dusty place may cause the picture of poor quality.

When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed, please clean up the LCD panel and lens following to the "Cleaning Method".

■ Mechanical Disassemblies

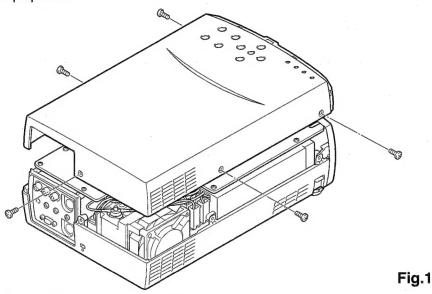
Mechanical disassemble should be made following procedures in numerical order. Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1. CABINET TOP REMOVAL

Remove 5 screws and pull cabinet top upward.



2. CABINET FRONT AND SPEAKER REMOVAL

1) Remove 4 screws (2 top and 2 bottom) **A** and take the cabinet front off forward.

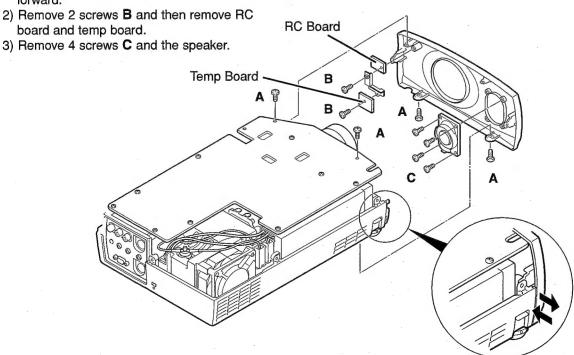


Fig.2

3. MAIN BOARD REMOVAL

Remove 9 screws and remove the main board upward.

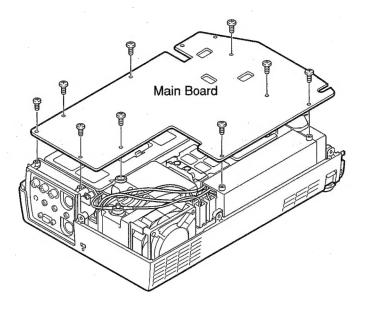


Fig.3

FUSE REMOVAL

Remove a screw and pull the line filter cover upward and then replace the fuse if required.

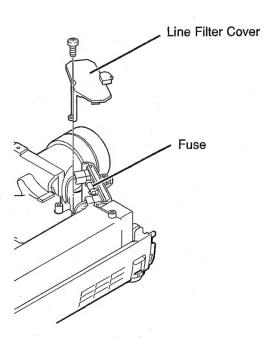
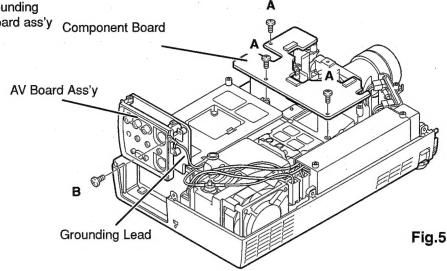


Fig.4

4. AV AND COMPONENT BOARD REMOVAL

- Remove 3 screws A and FPC cables, and then take the component board off upward.
- Remove a screw B and a grounding lead, and then take the AV board ass'y off upward.



5. LINE FILTER BOARD REMOVAL

- 1) Remove a screw A and remove a grounding lead.
- 2) Remove 2 screws B and take the line filter ass'y off upward.
- 3) Remove the line filter board from line filter holder.

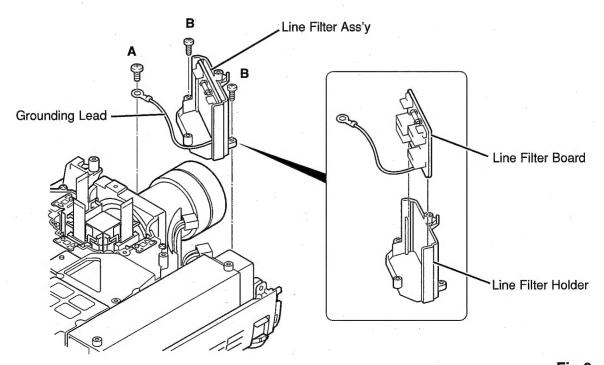
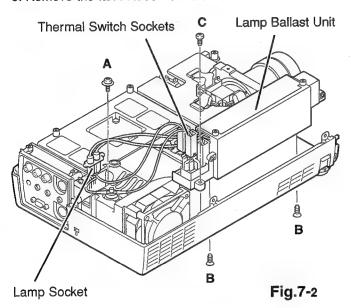
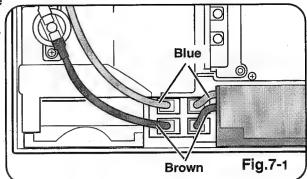


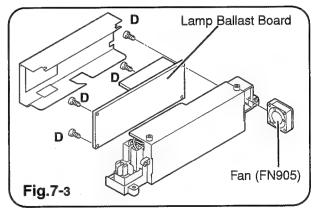
Fig.6

6. LAMP BALLAST UNIT FAN(FN905) REMOVAL

- 1) Disconnect the thermal switch sockets.
- 2) Remove a screw A and disconnect the lamp socket.
- 3) Remove 2 screws **B** (bottom side) and a screw **C**, and the remove the lamp ballast unit upward.
- 4) Take the cover off from the lamp ballast unit and remove 4 screws D and take the lamp ballast board off from the holder.
- 5. Remove the fan FN905 from the holder.







7. POWER BOARD REMOVAL

- 1) Remove 2 screws A and take the power unit cover off upward.
- 2) Remove 3 screws **B** and pull the power board upward.

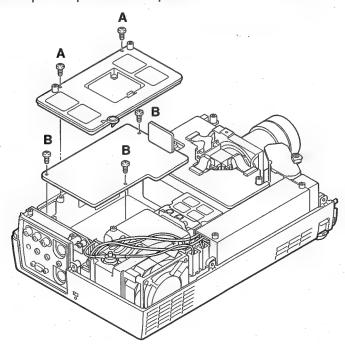


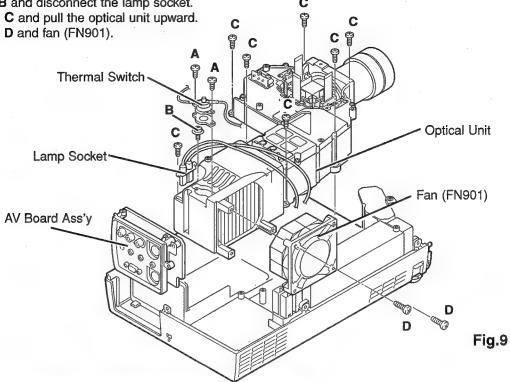
Fig.8

8. OPTICAL UNIT AND FAN(FN901) REMOVAL

- 1) Remove 2 screws A and the thermal switch.
- 2) Remove a screw B and disconnect the lamp socket.

3) Remove 7 screws C and pull the optical unit upward.

4) Remove 2 screws D and fan (FN901).

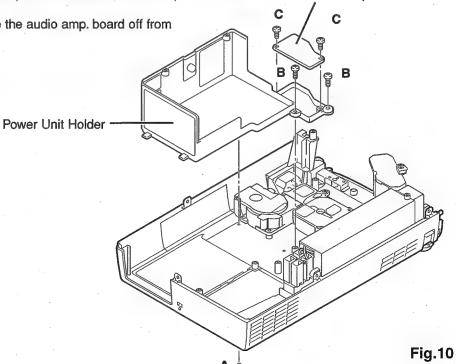


9. AUDIO AMP. BOARD REMOVAL

1) Remove a screw A (bottom side) and 2 screws B, and then pull the

power unit holder upward.

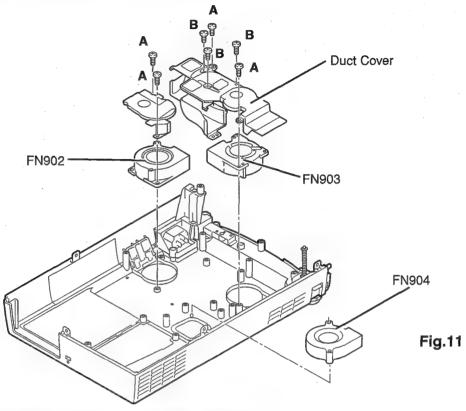
2) Remove 2 screws **C** and take the audio amp. board off from the power unit holder



Audio Amp. Board

10. FANS(FN902, FN903, FN904) REMOVAL

Remove 4 screws A and 3 screws B and remove the duct cover and fans (FN902, FN903 and FN904)



11. AC INLET ASS'Y REMOVAL

- Remove a screw A and a grounding lead.
 Remove 2 screws B and pull the AC inlet ass'y upward.

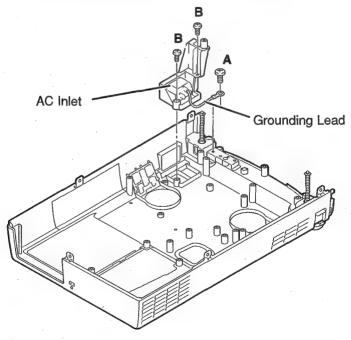


Fig.12

■ Optical Parts Disassemblies

1. PROJECTION LENS REMOVAL

- 1) Remove the Cabinet top and cabinet front following to "Mechanical Disassemblies".
- 2) Remove 4 screws and remove the Projection Lens.

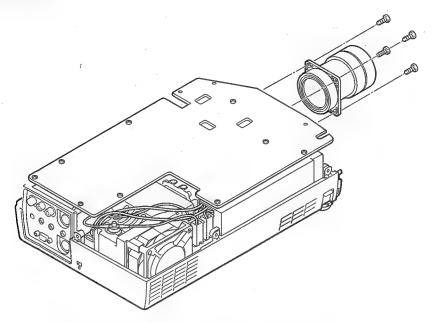


Fig.1

2. OPTICAL UNIT TOP REMOVAL

- 1) Remove the Cabinet top, front, main board, component boards and power unit cover following to "Mechanical Disassemblies".
- 2) Remove 6 screws and take the optical unit top off upward.

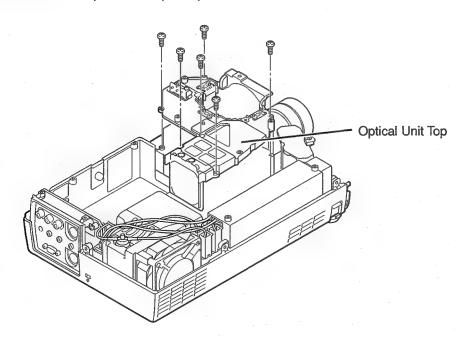
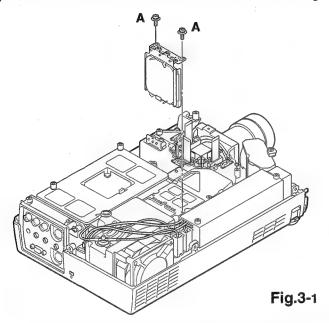
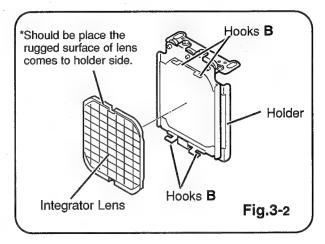


Fig.2

3. INTEGRATOR LENS ASS'Y DISASSEMBLY

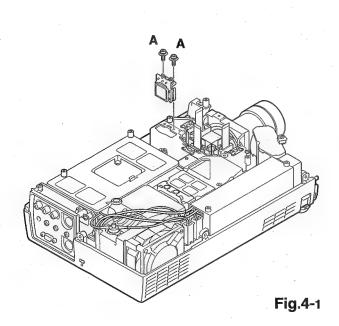
- 1) Remove the cabinet top, front and main board following to "Mechanical Disassemblies".
- 2) Remove 2 screws A and take the integrator lens ass'y off upward.
- 3) Release 4 hooks **B** on the holder and remove the integrator lens.

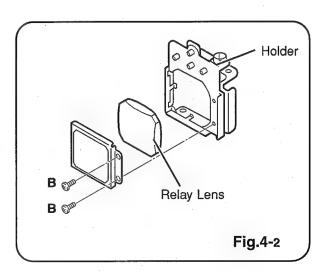




4. RELAY LENS ASS'Y DISASSEMBLY

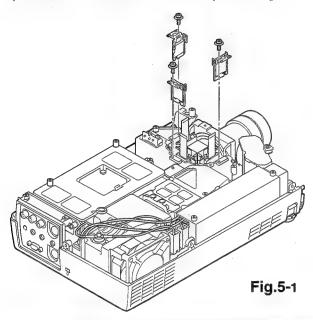
- 1) Remove the cabinet top, front, main and component boards following to "Mechanical Disassemblies".
- 2) Remove 2 screws A and take the relay lens ass'y off upward.
- 3) Remove 2 screws B on the holder and take the relay lens off.

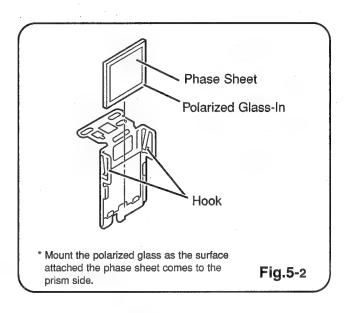




5. POLARIZED GLASS-IN ASS'Y DISASSEMBLY

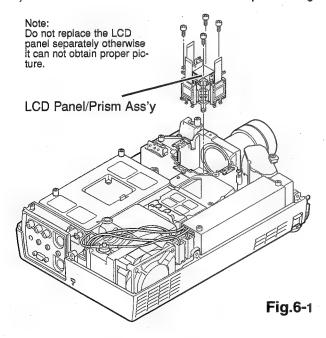
- 1) Remove the cabinet top, front, main and component boards following to "Mechanical Disassemblies".
- Remove each screw and take the each polarized glass-in ass'y off upward.
- 3) Release 2 hooks and remove the polarized glass-in.

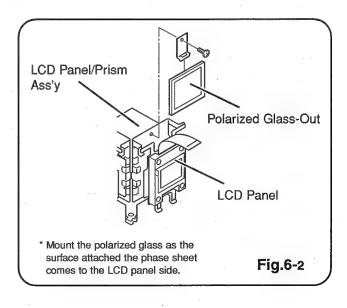




6. POLARIZED GLASS-OUT ASS'Y DISASSEMBLY

- Remove the cabinet top, front and main boards following to "Mechanical Disassemblies".
- 2) Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.
- 3) Remove each screw and take the each polarized glass-out off upward.

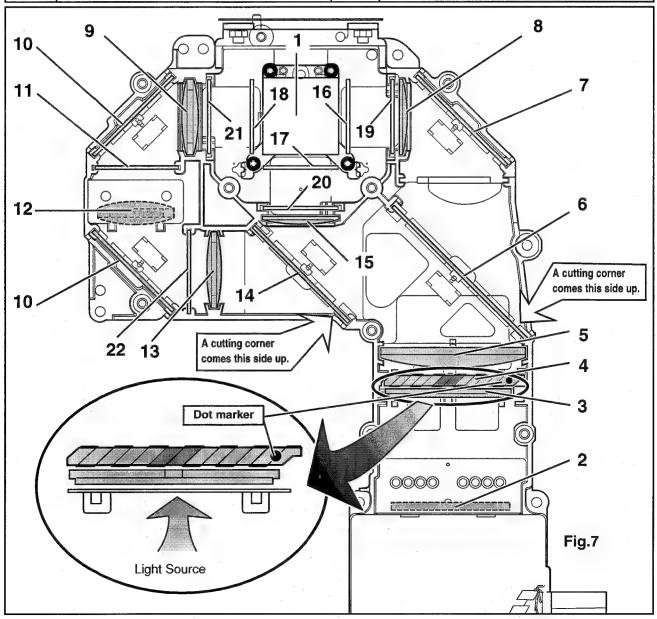




Locations and Directions

When the optical parts mounting or assembling, the parts must be mounted in the specified location and direction. Please follow to the figure below.

No.	Part name	No.	Part name
1	Prism ass'y	12	Relay lens (OUT)
2	Integrator lens (IN)	13	Relay lens (IN)
3	Integrator lens (OUT)	14	Dichroic mirror (G)
4	Prism Ass'y (PBS)	15	Condenser lens
5	Condenser lens (OUT)	16	Polarized glass (OUT/R)
6	Dichroic mirror (R)	17	Polarized glass (OUT/G)
7	Mirror (R)	18	Polarized glass (OUT/B)
8	Condenser lens (R)	19	Polarized glass (IN/R)
9	Condenser lens (B)	20	Polarized glass (IN/G)
10	Mirror (B)	21	Polarized glass (IN/B)
11	Optical Filter (UV cut)	22	Optical Filter (RB)



■ LCD Panel/Prism Ass'y Replacement

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following adjustments.

- Check the "Integrator Lens Adjustment" and "Relay Lens Adjustment" following to chapter "Optical Adjustment".
- Check the "White Balance Adjustment" and "Black Balance Adjustment" following to chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

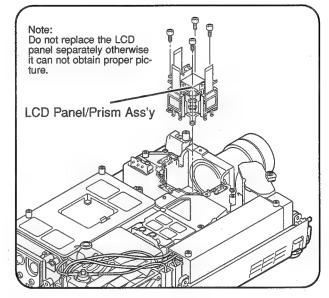
 If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION (Ver. 2.0.2)

Service Parts No. 645 045 7272

LCD PANEL/PRISM ASS'Y REMOVAL

- 1. Remove the cabinet top, front and main board following to "Mechanical Disassemblies".
- Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.

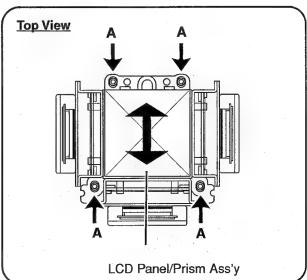


NOTE ON LCD PANEL/PRISM ASS'Y MOUNTING

After replacing or installing the LCD Panel/Prism ass'y, please make sure to obtain the best focus in both TELE and WIDE zoom. If the focus adjustment is required, please adjust the positioning of LCD Panel/Prism Ass'y by following the below procedure.

Mounting Procedure:

- 1. Loosen 4 screws **A** on the LCD Panel/Prism ass'y with 2.0 mm hex driver.
- Turn the projector on and project the image with WIDE zoom, and adjust the FOCUS control to obtain the best focus.
- 3. Turn the ZOOM control to the TELE position.
- 4. Move the LCD Panel/Prism Ass'y backward or forward (about 0mm ~ 0.8mm) to obtain the proper focus. Confirm the focus at TELE and WIDE zoom.
- 5. Tighten 4 screws A to fix the LCD Panel/Prism ass'y.



■ Lamp Replacement

WARNING:

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

- Turn off the projector and disconnect the AC cord. Allow the projector to cool for at lease 45 minutes.
- 2. Remove a screw with a screwdriver and remove the lamp cover.
- Remove 2 screws and pull out the lamp assembly by grasping the handle.
- 4. Replace the lamp assembly securely and tighten 2 screws.
- 5. Place the lamp cover and tighten a screw.
- 6. Connect the AC cord to the projector and turn on.

7. Reset the lamp replacement monitor timer, see below explanation.

Note:

- Do not reset the Lamp Replacement Monitor Timer, except after the lamp is replaced.
- The projector can not be turned-on with the lamp cover removed, because when the lamp cover is removed, the interlock switch is also released to switch off the mains power for safety.

How to reset the Lamp Replacement Monitor Timer

- Turn the projector on, and press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button. Another dialog box SET-TING MENU will appear.
- Press the POINT DOWN button and a red arrow icon will appear. Move the arrow to "Lamp age", and then press the SELECT button. The message "Lamp replace monitor Reset?" is displayed.
- 3. Select [Yes] to reset the Timer.

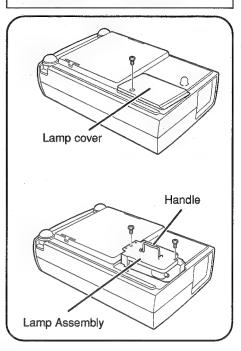
Please refer to the owners manual for further information.

ORDER REPLACEMENT LAMP

 Type No.
 Service Parts No.

 POA-LMP25
 610 287 5386

 POA-LMP34
 610 291 0032



Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.

Refer to "Air Filter Cleaning".

How to check the Accumulated Illumination Time

The LAMP REPLACEMENT indicator will illuminate when the accumulated illumination time of the lamp reaches 2000 hours. This is to indicate that lamp replacement is required.

You can check the accumulated illumination time of the lamp by following procedure.

- Press and hold the pointer ▲ on the projector for more than 20 seconds.
- 2. The accumulated illumination time is displayed on the right bottom corner of the screen. For example, when "Lamp Age 123 hours" is displayed, the

accumulated illumination time of the lamp is 123 hours. This will disappear in 5 seconds.



Accumulated Illumination Time

CONTRAST ADJUSTMENT

[Before Adjustment]

- Adjustment requires a 2.0mm hex wrench and a slot screwdriver.
- Remove cabinet top following to "Mechanical Disassemblies".
- Input a 100% of black raster signal.

Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[R/G/B-CONTRAST ADJUSTMENT]

- 1. Shield the unnecessary lights by inserting the thick paper etc. in front of the LCD panels .
 - When adjusting the R-Contrast, project red light only.
 - When adjusting the G-Contrast, project green light only.
 - When adjusting the B-Contrast, project blue light only.
- 2. Loosen a screw A (Fig.1-1/1-2) on the polarized glass mounting base which you intend to adjust.
- 3. Adjust a slots **B** as shown in **Fig.1-1** to obtain the darkest brightness on the screen by turning a slot screwdriver.
- 4. Tighten the screw A to fix the polarized glass mounting base.

Repeat steps 1 to 4 for remaining polarized glasses.

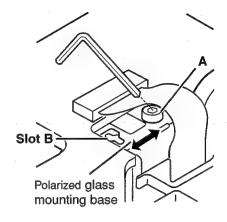


Fig.1-1

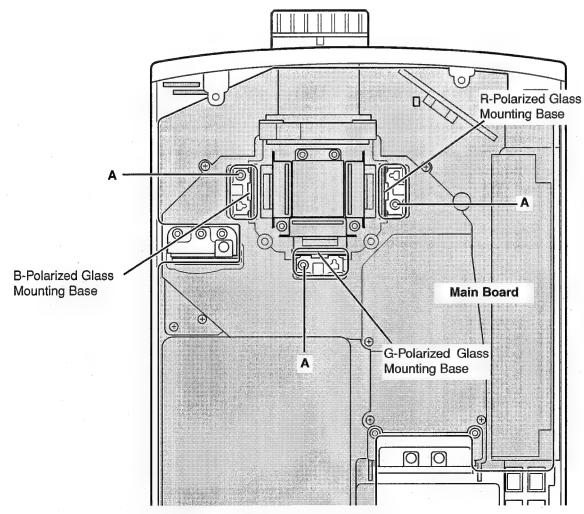


Fig. 1-2

INTEGRATOR LENS ADJUSTMENT

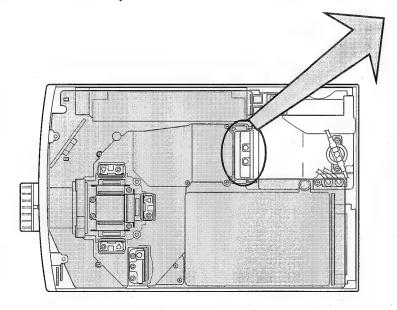
[Before Adjustment]

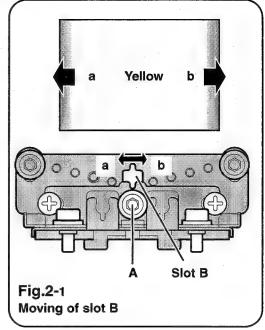
- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top following to "Cabinet Disassemblies".

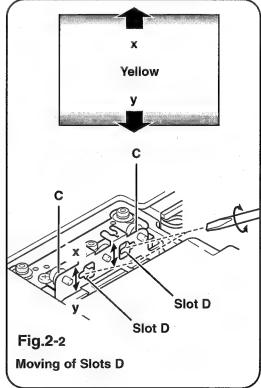
Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[ADJUSTMENT]

- 1. Turn on lamp by a state of without FPC cable of LCD panels.
- Shield the red and blue lights by inserting thick papers etc. in front of Red and Blue LCD panels to project only green light and make a fine focus.
- 3. Remove the shield in front of Red LCD panel to project green and blue light.
- Adjust the adjustment base of integrator lens ass'y to make color uniformity in yellow.
 - If the color shade appears on the left or right of the screen as shown in Fig.2-1, loosen 1 screw A with the 2.0mm hex driver and adjust a slot B to make color uniformity in yellow by turning a slot screwdriver.
 - 2) If the color shade appears on the top or bottom of the screen as shown in Fig.2-2, loosen 2 screws C with the 2.0mm hex driver and adjust a slots D to make color uniformity in yellow by turning a slot screwdriver.
- 5. Tighten 1 screw A and 2 screws C to fix the integrator lens unit.
- 6. Remove the shield in front of Blue LCD panel and project red, green and blue light. Check that there is no color shade on the left or right of the screen. If you recognise the color shade, the "Relay Lens Adjustment" should be carried out to obtain the proper color uniformity.







RELAY LENS ADJUSTMENT

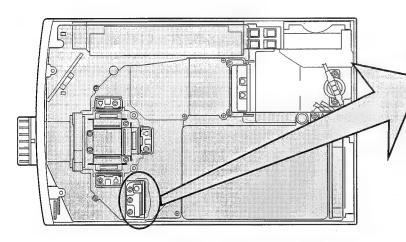
[Before Adjustment]

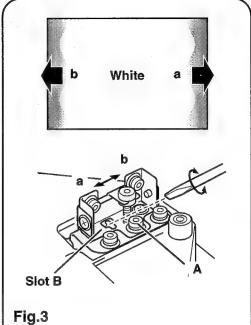
- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top following to "Cabinet Disassemblies".

Note: Do not disconnect the connectors on main and component boards otherwise the projector can not be turned on.

[ADJUSTMENT]

- 1. Turn on lamp by a state of without FPC cable of LCD panels.
- 2. Adjust the adjustment base of relay lens ass'y to make color uniformity in white.
 - If the color shade appears on the left or right of the screen as shown in **Fig.3**, loosen a screw $\bf A$ with the 2.0mm hex driver and adjust the slot $\bf B$ to make color uniformity in white by using a slot screwdriver.
- 3. Tighten the 1 screw A to fix the relay lens unit.





Moving of slot B

■ Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

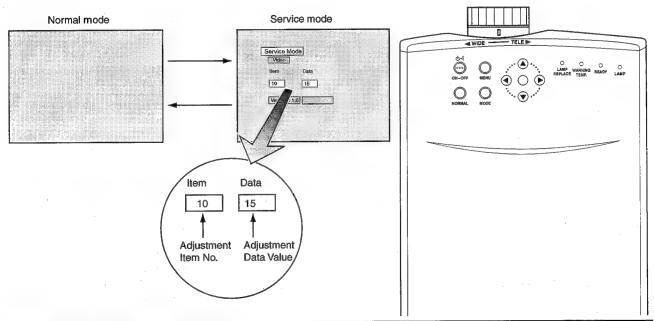
To enter to the "Service Mode", press and hold the **MENU** and **NORMAL** button on the projector at the same time for more than 3 seconds. The service mode display appears on the screen as follows.

To adjust service data

Select the adjustment item no. by pressing the pointer ▲ or ▼ button, and change the data value by pressing the pointer ◀ or ▶ button. Refer to the "Service Adjustment Data Table" for further description of adjustment item no. and data value.

To exit the service mode

To exit the service mode, press the POWER ON-OFF button on the projector or remote control unit.



Memory IC Replacement

IC302 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, it should be performed the re-adjustments following to the "Electrical Adjustments".

The data of lamp replacement monitor timer is stored in the IC302.

Please note that the lamp replacement monitor timer is reset when the memory IC (IC302) is replaced. (Lamp replacement monitor time can not be set to the previous value.)

Caution to memory IC replacement

When IC302 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjust-

ments following to the "Electrical Adjustments".

<u>Please note that the lamp replacement monitor timer is reset.</u>

Caution of Main Board replacement (in the case IC302 is not defective)

When the main board is replaced, IC302 should be replaced with the one on previous main board. After replacement, it should be required to perform the readjustments following to the "Electrical Adjustments". In this case, the lamp replacement monitor timer can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

-				
-	Inpu	IT C	unr	າລເ
•	11 1124	JE 0	"QI	ICI

_		
	Video signal	1.0Vp-p/75 Ω terminated, 16 steps gray scale (Composite video signal)
	Component Video signal	$0.7\text{Vp-p/}75\Omega$ terminated, 16 steps gray scale (Component video signal
		with 480i, 480p, 575p, 720p, 1035i or 1080i format)
	Computer signal	0.7Vp-p/75Ω terminated, 16 steps gray scale pattern (SVGA)

● Picture control mode "NORMAL" mode unless otherwise noted.

Note:

* Please refer to "Service Adjustment Menu Operation" for entering to the service mode and adjusting the service data.

OUTPUT VOLTAGE ADJUSTMENT

After replacing the Power Board, PF.C. Board, readjust the Output voltage adjustment as follows.

- 1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of K6C.
- 2. Adjust the voltage by using VR01 as following.

AC Input	Reading
230V	380V ±2V
120V	372V +2V

Caution:

Be sure to connect the lamp when taking this adjustment.

FAN VOLTAGE ADJUSTMENT

- 1. Connect a digital voltmeter to test point "TP6602" (+) and chassis ground (-).
- Enter to the service mode, select item no. "29" and set data value to "1".
- Adjust the voltage to be 12.1 ±0.1Vdc by using
- Check that the voltages at test points "TP6601" (+), "TP6603" (+) and chassis ground (-) are 13.0 to 13.5Vdc.
- 5. Select item no. "29" and set data value to "0".

PC-OFFSET ADJUSTMENT

- Receive the 16-step gray scale computer signal.
- 2. Set to COMPUTER mode.

[R-OFFSET ADJUSTMENT]

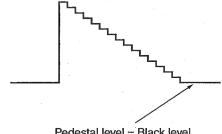
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "275" and change data value to adjust the pedestal level and black level to be same level.

[G-OFFSET ADJUSTMENT]

- Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 6. Select item no. "276" and change data value to adjust the pedestal level and black level to be same level.

[B-OFFSET ADJUSTMENT]

- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- 8. Select item no. "277" and change data value to adjust the pedestal level and black level to be same level.



PC GAIN ADJUSTMENT

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.

IPC-R GAIN ADJUSTMENT

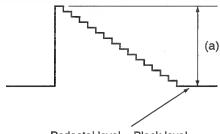
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.

[PC-G GAIN ADJUSTMENT]

- 5. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 6. Select item no. "273" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.

[PC-B GAIN ADJUSTMENT]

- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- 8. Select item no. "274" and change data value to adjust "a" to be 1.13 ±0.01Vp-p.



Pedestal level = Black level

COMPONENT GAIN ADJUSTMENT

- 1. Receive the 16-step grey scale component video sig-
- Set to VIDEO (Component) mode.

[COMPONENT-R GAIN ADJUSTMENT]

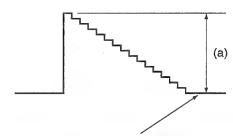
- 3. Connect an oscilloscope to test point "TP2212R" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.

[COMPONENT-G GAIN ADJUSTMENT]

- 5. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 6. Select item no. "273" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.

[COMPONENT-B GAIN ADJUSTMENT]

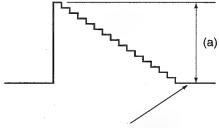
- 7. Connect an oscilloscope to test point "TP2232B" (+) and chassis ground (-).
- 8. Select item no. "274" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.



Pedestal level = Black level

AV GAIN ADJUSTMENT

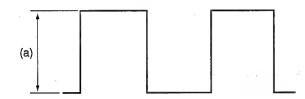
- 1. Receive the 16-step grey scale video signal.
- 2. Set to VIDEO mode.
- 3. Connect an oscilloscope to test point "TP2222G" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "30" and change data value to adjust "a" to be 1.05 ±0.01Vp-p.



Pedestal level = Black level

NRS ADJUSTMENT

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to **COMPUTER** mode.
- 3. Connect an oscilloscope to test point "TP3581" (+) and chassis ground (-).
- 4. Adjust "a" to be 5.0 ±0.1V by using VR3561.



SIGNAL CENTER ADJUSTMENT

Presetting

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.

[R-SIGNAL CENTER ADJUSTMENT]

- 3. Connect a digital voltmeter to test point "TP511" (+) and chassis ground (-).
- 4. Adjust voltage to be 7.30 ±0.05V by using VR521.

[G-SIGNAL CENTER ADJUSTMENT]

- 5. Connect a digital voltmeter to test point "TP512" (+) and chassis ground (-).
- 6. Adjust voltage to be 7.30 ± 0.05 V by using VR551.

[B-SIGNAL CENTER ADJUSTMENT]

- 7. Connect a digital voltmeter to test point "TP513" (+) and chassis ground (-).
- 8. Adjust voltage to be $7.30 \pm 0.05V$ by using VR581.

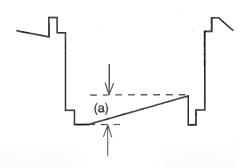
PC/AV GAMMA OFF ADJUSTMENT

PC-GAMMA OFF ADJUSTMENT

- 1. Receive the 16-step gray scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "0" and change data value to adjust "a" to be 1.60 ±0.01Vp-p.

[AV-GAMMA OFF ADJUSTMENT]

- 5. Receive the 16-step gray scale video signal.
- 6. Set to VIDEO mode.
- 7. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 8. Enter to the service mode, select item no. "0" and change data value to adjust "a" to be 1.75 ±0.01Vp-p.



*This adjustment should be carried out before adjusting PC/AV-VIDEO ADJUSTMENT-1 and 2.

PC/AV-VIDEO ADJUSTMENT-1

Presetting

Input the 16-step gray scale video signal and computer signal.

[PC/AV-VIDEO ADJUSTMENT]

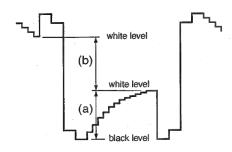
- Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 1.8 ±0.01Vp-p at each VIDEO and COMPUTER mode.
- Select COMPUTER mode, select item no. "12" and change data value to adjust "a" to be 3.90 ±0.01Vp-p.
- Select VIDEO mode, select item no. "12" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.

[R-VIDEO ADJUSTMENT]

- Connect an oscilloscope to test point "TP511" (+) and chassis ground (-).
- 7. Enter to the service mode and select **COMPUTER** mode.
- 8. Select item no. "13" and change data value to adjust "a" to be 3.90 ±0.01Vp-p.
- Select VIDEO mode and item no. "13" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.

[B-VIDEO ADJUSTMENT]

- 10. Connect an oscilloscope to test point "TP513" (+) and chassis ground (-).
- Enter to the service mode and select COMPUTER mode.
- 12. Select item no. "14" and change data value to adjust "a" to be 3.90 ±0.01Vp-p.
- 13. Select **VIDEO** mode and item no. "14" and change data value to adjust "a" to be 4.00 ±0.01Vp-p.



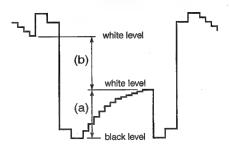
PC/AV-VIDEO ADJUSTMENT-2

[PC-VIDEO ADJUSTMENT-2]

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to **COMPUTER** mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 1.90 ±0.01Vp-p.

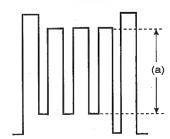
[AV-VIDEO ADJUSTMENT-2]

- 9. Receive the 16-step grey scale video signal.
- 10. Set to VIDEO mode.
- 11. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 12. Enter to the service mode, select item no. "15" and change data value to adjust "b" to be 2.10 ±0.01Vp-p.



S/H CLOCK ADJUSTMENT

- 1. Receive the 16-step gray scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
- 4. Enter to the service mode, select item no. "3" and change data value to adjust "a" to be maximum.



COMMON CENTER ADJUSTMENT

- 1. Receive the 1 dot line computer signal.
- 2. Set to COMPUTER mode.

[R-COMMON CENTER ADJUSTMENT]

- 3. Cover the G and B panel to block the light transit.
- Adjust VR2561 to obtain the minimum flicker on the picture.

[G-COMMON CENTER ADJUSTMENT]

- 5. Cover the R and B panel to block the light transit.
- Adjust VR2571 to obtain the minimum flicker on the picture.

[B-COMMON CENTER ADJUSTMENT]

- 7. Cover the G and R panel to block the light transit.
- 8. Adjust VR2581 to obtain the minimum flicker on the picture.

WHITE BALANCE ADJUSTMENT

[PC WHITE BALANCE ADJUSTMENT]

- 1. Receive the 16-step grey scale computer signal.
- 2. Set to COMPUTER mode.
- 3. Enter to the service mode, select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

- 4. Receive the 16-step grey scale video signal.
- 5. Set to VIDEO mode.
- Select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance

[COMPONENT WHITE BALANCE ADJUSTMENT]

- Receive the 16-step grey scale component video signal.
- 8. Set to VIDEO (Component) mode.
- Select item no. "16" (Red) or "17" (Blue), and change data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video, computer and component input.

BLACK BALANCE ADJUSTMENT

[PC BLACK BALANCE ADJUSTMENT]

- 1. Receive the 16-step grey scale computer signal.
- Set to COMPUTER mode.
- Enter to the service mode, select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

[AV BLACK BALANCE ADJUSTMENT]

- 4. Receive the 16-step grey scale video signal.
- 5. Set to VIDEO mode.
- 6. Select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

[AV BLACK BALANCE ADJUSTMENT]

- Receive the 16-step grey scale component video signal.
- 8. Set to VIDEO (Component) mode.
- Select item no. "9" (Red) or "10" (Blue), and change data values respectively to make a proper white balance at darker portion of the screen.

Confirm that the same white balance is obtained at darker portion of the screen in video, computer and component input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows:

COLOR SHADING CORRECTION (Ver. 2.0.2)

Service Parts No. 645 045 7272

● Service Adjustment Data Table

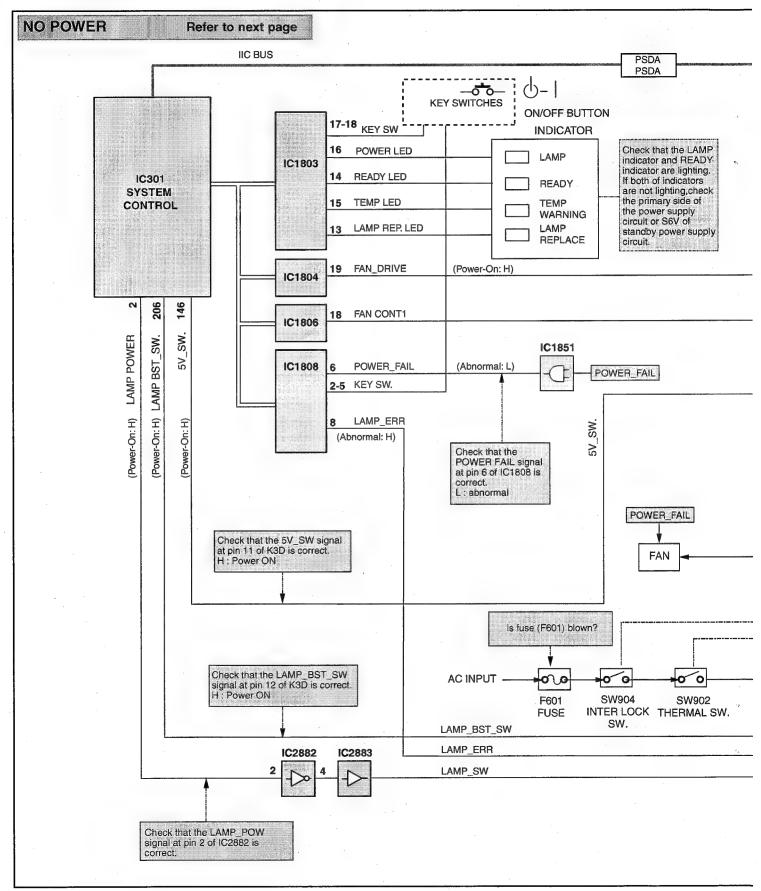
These initial values are the reference data written from the CPU ROM to the memory IC when the new memory IC replaced. The adjustment items indicated with "*" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

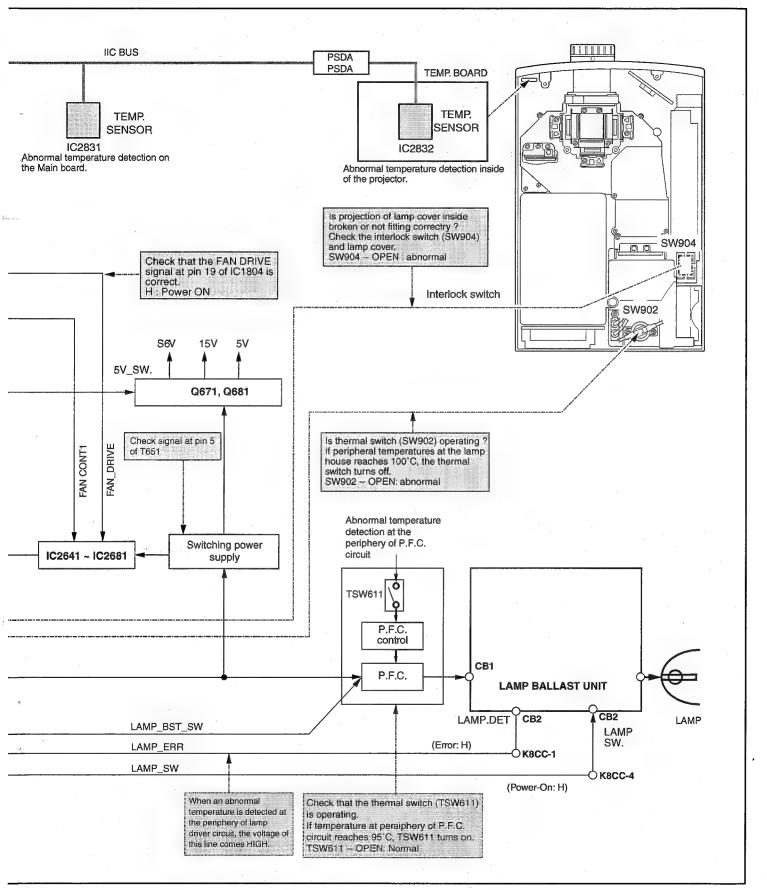
	4 **							e initial data value.	
No.	Adjustment Item		lr.	iitial	Value		Range	Description	
			PC	CV	or S	Y/Cb/Cr			
0	RGB AMP (Gamma OFF)	*	30		3		0 - 63	Same as No.1of RGB AMP(Gamma ON)	
1	RGB AMP (Gamma ON)		30		3	0 .		To up/down R/G/B of Gamma at same time	
								system stop up/down, when R, G or E value reached Max or Min value.	
2	S&H Test pattern display position		3		0 - 12	Test pattern display depend on setting value, test pattern move to right, 1 dot each by increasing data value.			
3	GAMMA DLY CNT	*		2	25		0 - 63	Display Green test pattern where Service No2 setting position.	
4	GAMMA G BIAS			, 8	5		0 - 63		
5	Not used .					•			
6	GAMMA R BIAS				5		0 - 63		
7	Not used								
8	GAMMA B BIAS				5		0 - 63		
9	GAMMA R-B1P	*	29		28	28	0 - 63	White balance adjustment of Black portion in AV mode for Red	
10	GAMMA B-B1P	*	29		8	28	0 - 63	White balance adjustment of Black portion in AV mode for Blue	
11	GAMMA G-B1P		29	2	28	28	0 - 63	White balance adjustment of Black portion in AV mode for Green	
12	DAC CLAMP LEVEL(SUB BRIGHT)	*	30		3		0 - 63	Sub-Bright(refer to DAC IC Control and User control spec)	
13	GAMMA R GAIN	*	30		3		0 - 63		
14	GAMMA B GAIN	*	30		3		0 - 63		
15	DAC RGB BIAS	*	50		5		0 - 125	G-Bias adjust value(refer to DAC IC Control and User control spec)	
16	DAC R BIAS	*	50		0	50	0 - 125	R-Bias adjust value(refer to DAC IC Control and User control spec)	
17	DAC B BIAS	*	50	5	0	50	0 - 125	B-Bias adjust value(refer to DAC IC Control and User control spec)	
18	DAC RGB GAIN(SUB CONTRAST)		30		3	0	0 - 63	Sub-CONT(refer to DAC IC Control and User control spec)	
19	S&H B-CK				2		0 - 255	Display Blue test pattern where Service No2 setting position.	
20	S&H G-CK				2		0 - 255	Display Green test pattern where Service No2 setting position.	
21	S&H R-CK				2		0 - 255	Display Red test pattern where Service No2 setting position.	
22	Setting for Shoot out mode				0		0-2	0;Normal/1;Shoot out1/2;Shoot out2	
23	Serial baud rate setting		1		0-2	0;9600/1;19200/2;38400			
24	Lamp life time display				0		0.45	Read Only	
25	S&H HCK PHASE adjust				4		0 - 15	Display Green test pattern where Service No2 setting position.	
26	GAMMA R_WHP		57 57		7	57	0-63		
27 28	GAMMA G_WHP GAMMA B_WHP		57 57		7 7	57 57	0 - 63		
29	Fan Control	*	31			31	0 or 1	Fans control for high land, control FAN_CONT1/FAN_CONT2.	
								0 : automatic, 1 : Forced High speed	
30	D/A gain	*	128	12	28	128	0 - 255		
			·	co I		ander Stanskelling fra			
	VD 41 010/01/0		NT		PA		0.055		
36	VD Analog Cont3(CV)				2		0 - 255		
37	VD Analog Cont4		4.			10	0 - 255		
42	VD Bright			18	13		0 - 255		
43	VD Contrast VD Analog Cont3(S-Video)		6		6 '2	0	0 - 255 0 - 255		
64	VD Ariding Conto(5-VIQEO)			- 1	_		0 - 200		
	***************************************		, PC Y/Cb/Cr						
272	REDGAIN		9 P		9	110 00000000000000000000000000000000000	0 - 255		
273	GRNGAIN	*	9		90		0 - 255		
274	BLUGAIN	*	9	_	9		0 - 255		
275	REDOFST	*	Ť		2	-	0 - 63		
276	GRNOFST	*			32		0 - 63		
277	BLUOFST	*	32		0 - 63				
278	CLDUR				0 - 255				
279	CLPLACE		-		-		0 - 255		
$\neg \uparrow$									

For Fan Control Ter t TaH TaL TbH TbL Th Not used Sub Sharpness (YCbCr) Sub Color (Video)	3 2 49 43 43 37 6	0 - 31 2 - 5 0 - 255 0 - 255 0 - 255	Temperature checking period, 0.5/1.0/1.5/2.0/2.5/3.0 sec.
t TaH TaL TbH TbL Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	2 49 43 43 37	2 - 5 0 - 255 0 - 255 0 - 255	Temperature checking period, 0.5/1.0/1.5/2.0/2.5/3.0 sec.
TaH TaL TbH TbL Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	49 43 43 37	0 - 255 0 - 255 0 - 255	Temperature checking period, 0.5/1.0/1.5/2.0/2.5/3.0 sec.
Tal. TbH TbL Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	43 43 37	0 - 255 0 - 255	
TbH TbL Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	43 37	0 - 255	
TbL Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	37		
Th Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)			
Not used Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)	6	0 - 255	
Sub Sharpness (YCbCr) Sub Tint (Video) Sub Color (Video)		0 - 255	
Sub Tint (Video) Sub Color (Video)			
Sub Color (Video)	8	0 - 15	Refer to User control spec
	0	0 - 191	Refer to User control spec
	26	0 - 63	
Sub Sharpness (Video)	0	0-4	Select the PW Filter
Sub Color (YCbCr)	8	0 - 15	Refer to Use control spec.
Not used			
Expand Ratio (Vertical) 60Hz	3		Video and S-Video mode only.
Expand Ratio (Horizontal) 60Hz	11]
	402	₩.]
	300	-	1
	6	-	1
	12	**	1 ·
	403	-	1
		-	1
			For Component mode and RGB NTSC
		<u> </u>	1 of Component mode and read reco
			-
		-	4
			For Component mode and DCP DAI
			For Component mode and RGB PAL
		-	4
		-	
			For Component mode
			-
			-
		-	
The state of the s			For Component mode
		-	_
Position (Horizontal) 575p	406	-	
Position (Vertical) 575p	308	-	
Expand Ratio (Vertical) 720p			For Component mode
Expand Ratio (Horizontal) 720p	20		
Position (Horizontal) 720p	406	••	_
Position (Vertical) 720p	296		
Expand Ratio (Vertical) 1035i	13		For Component mode and RGB HDTV 1035i
	31]
Position (Horizontal) 1035i	403]
	303	**	1
			For Component mode and RGB HDTV 1080i
		-	1
			<mark>1</mark> *
			1
Toomon (vorticuly 1000)	507	<u> </u>	
		 	
The state of the s			
			<u> </u>
		<u> </u>	
	Expand Ratio (Horizontal) 60Hz Position (Horizontal) 60Hz Position (Vertical) 60Hz Expand Ratio (Vertical) 50Hz Expand Ratio (Horizontal) 50Hz Position (Horizontal) 50Hz Position (Vertical) 50Hz Expand Ratio (Vertical) 480i Expand Ratio (Vertical) 480i Expand Ratio (Horizontal) 480i Position (Horizontal) 480i Position (Vertical) 480i Expand Ratio (Vertical) 575i Expand Ratio (Vertical) 575i Expand Ratio (Horizontal) 575i Position (Horizontal) 575i Position (Vertical) 575i Expand Ratio (Vertical) 480p Expand Ratio (Vertical) 480p Position (Horizontal) 480p Position (Horizontal) 480p Position (Vertical) 480p Expand Ratio (Vertical) 575p Expand Ratio (Vertical) 575p Expand Ratio (Horizontal) 575p Position (Horizontal) 575p Position (Vertical) 575p Expand Ratio (Vertical) 720p Expand Ratio (Horizontal) 720p Position (Horizontal) 720p Position (Vertical) 720p Expand Ratio (Vertical) 1035i Expand Ratio (Horizontal) 1035i Position (Vertical) 1035i Expand Ratio (Vertical) 1035i Expand Ratio (Vertical) 1036i Expand Ratio (Horizontal) 1080i Position (Horizontal) 1080i Position (Horizontal) 1080i Position (Horizontal) 1080i	Position (Horizontal) 60Hz 402 Position (Vertical) 60Hz 300 Expand Ratio (Vertical) 50Hz 6 Expand Ratio (Horizontal) 50Hz 12 Position (Horizontal) 50Hz 403 Position (Vertical) 50Hz 300 Expand Ratio (Horizontal) 50Hz 300 Expand Ratio (Vertical) 480i 13 Expand Ratio (Horizontal) 480i 407 Position (Horizontal) 480i 308 Expand Ratio (Vertical) 480i 308 Expand Ratio (Vertical) 575i 21 Expand Ratio (Horizontal) 575i 25 Position (Horizontal) 575i 408 Position (Vertical) 575i 313 Expand Ratio (Vertical) 480p 9 Expand Ratio (Horizontal) 480p 9 Expand Ratio (Horizontal) 480p 9 Expand Ratio (Horizontal) 480p 10 Position (Horizontal) 480p 10 Position (Vertical) 480p 300 Expand Ratio (Vertical) 575p 22 Expand Ratio (Vertical) 575p 22 Expand Ratio (Horizontal) 575p 26 Position (Horizontal) 575p 26 Position (Horizontal) 575p 308 Expand Ratio (Horizontal) 720p 12 Expand Ratio (Horizontal) 720p 20 Position (Vertical) 720p 20 Position (Vertical) 720p 20 Position (Vertical) 720p 20 Position (Vertical) 720p 20 Expand Ratio (Horizontal) 1035i 13 Expand Ratio (Horizontal) 1035i 31 Position (Horizontal) 1035i 303 Expand Ratio (Vertical) 1035i 31 Position (Horizontal) 1030i 31 Position (Horizontal) 1030i 403	Position (Horizontal) 60Hz

Test Points and Locations Main Board ■ TP3331 TP3322 VR531 TP513 VR581 TP6603 🗀 VR521 VR3561 **(** TP6602 🗆 \oplus TP511 IC501 IC531 VR561 VR2561 \oplus TP512 TP802 ⊕ VR551 ■ TP801 TP3582 \oplus VR2571 VR6601 □ TPDHS □ TPDVS IC301 TP22TF TP5111 IC2200 TP5112 TP5101 TP5103 IC6101 IC202 Power Board K6C TP221R IC6901 D652 T651 D651 IC63 K6J K6D

■ Troubleshooting





NO POWER

PERIPHERY OF CHASSIS

- Is fuse (F601) blown?
 Fuse may be opened when either the LAMP indicator or the READY indicator isn't Illuminated. Check the fuse.
 - For continued safety, replace with a fuse of the same type.

TYPE T4.0AH 250V FUSE. (LITTLE FUSE INC. TYPE 215004)

 Is projection of lamp cover inside broken or not fitting?
 Check the INTER LOCK switch(SW904) and lamp cover.

SW904 OPEN : abnormal

- Is thermal switch(SW902) operating?
 If temperatures periphery of lamp house reaches 100°C, the thermal switch will be turned off automatically.

IC2831 on the main board may detect the abnormal temperature inside of the projector. If one of these ICs detects the abnormal temperature, this projector will be turned off automatically.

POWER BOARD

- Are the LAMP indicator(red) and READY indicator(green) light?
 If the LAMP and READY indicators do not illuminated, check the primary circuit and S6V of standby power supply circuit.
- 2. Check that the LAMP BST-SW signal is correct.
 Pin 12 of K6K H: ON
- 3. Check that the 5V_SW signal is correct.
 Pin 11 of K6K H: ON
- 4. Check that the POWER FAIL signal is correct.
 Pin 13 of K6K...... L : abnormal
- Is thermal switch(TSW611) operating?
 If temperatures periphery of P.F.C. circuit reaches 95°C, the thermal switch will be turned on automatically.

TSW611 SHORT : abnormal

Check the signal at pin 5 of T651. (Switching power IC output signal)

MAIN BOARD

- 1. Check that the 15.5V is observed at pins 1-3 of K3C.
- 2. Check that the 6V is observed at pins 6-8 of K3C.
- 3. Check that the -5V is observed at pin 9 of K3C.
- 4. Check that the 5V is observed at pins 10-11 of K3C.
- 5. Check that the 6V is observed at pins 2-4 of K3D.
- 6. Check that the 15.5V is observed at pins 7-8 of K3D.
- 7. Check that the 5V_SW signal is correct. Pin 11 of K3D...... H: ON
- 8. Check that the LAMP BST_SW signal is correct.
 Pin 12 of K3D...... H: ON
- 9. Check that the POWER FAIL signal is correct.
 Pin 13 of K3D L : abnormal
- Check that the 12V is observed at test points TP6101. TP6102 and TP6103.
- 11. Check that the LAMP_SW signal is correct.
 Pin 4 of K8CC H: On
- 12. Check that the LAMP_ERR signal is correct.
 Pin 1 of K8CC L : On
- 13. Check that the POWER FAIL signal is correct.
 Pin 2 of IC1851...... L: abnormal
- Check that the Sensor IC(IC2831) detects abnormal temperature inside the projector.

COMPONENT BOARD

- 1. Check Power Supply and switching circuit Check ICs IC2641 to IC2691
- Check that the POWER FAIL signal is correct.
 Pin 11-12 of K3A L : abnormal
- 3. Check that the FAN_DRIVE signal is correct.
 Pin 7-8 of K3A H: On

NO PICTURE

AV BOARD

- Check that the Vcc-voltages(+5V, -5V) are applied to AV circuits.
 Pins 47-50 of K10A Pins 47-54 of K10B
 - Pins 47-50 of K10A, Pins 47-54 of K10B5V
 Pins 39-42 of K10B-5V
 Check IC1001, IC1002 and IC1021.
- Check that the following input signals are observed correctly.

SIGNAL	K10A-pin No.	K50A-pin No.
V-Sync	17-18	17-18
H-Sync	15-16	15-16
В	11-12	11-12
G	9-10	9-10
R	7-8	7-8
Video	33-34	33-34
S-C	29-30	29-30
S-Y	25-26	25-26

MAIN BOARD

- 1. Check the signals at following test points.
 - Video signal at TP208, TP218
 - V-sync signal at TP7224
 - H-sync signal at TP7223

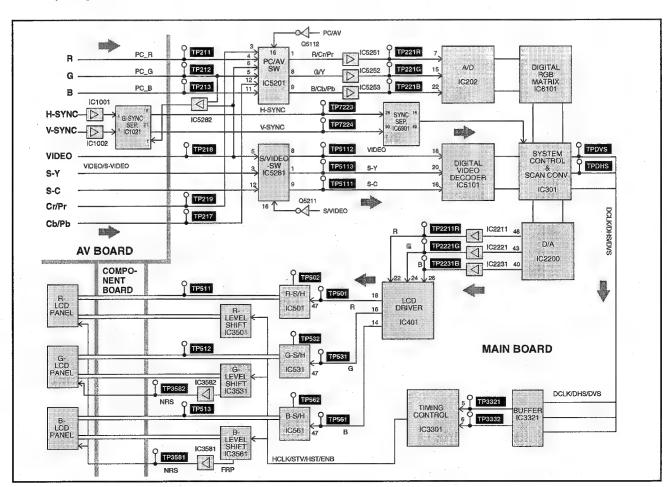
- Check that the RGB signals are observed at following test points.
 TP211 TP221B TP2211B Resignal

TP211, TP221R, TP2211R	R-signal
TP212, TP221G, TP2221G	G-signal
TP213, TP221B, TP2231B	B-signal

- Check that the signals are observed at following test points.
 - TPDHS, TP3322V-Sync, TPDVS, TP3321H-Sync
- 5. Check that the S/H signals are observed at following test points.

TP501, TP511	R-signal
TP531, TP512	G-signal
TP561, TP513	B-signal

6. Check that the NRS signals are observed at test points TP3581 and TP3582.

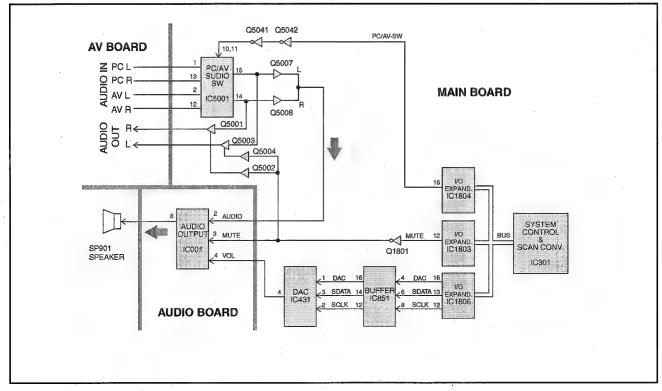


NO SOUND

MAIN BOARD

AUDIO BOARD

- Check that sound volume control signal is correct. Pin 4 of IC001
- Check that audio signal is observed at pin 2 of IC001.
- 3. Check the MUTE signal at pin 3 of IC001.
 Pin 3 of IC001......Mute-On: H
- 4. Check that Vcc-voltage(+12V) is applied at pins 1 and 9 of IC001.

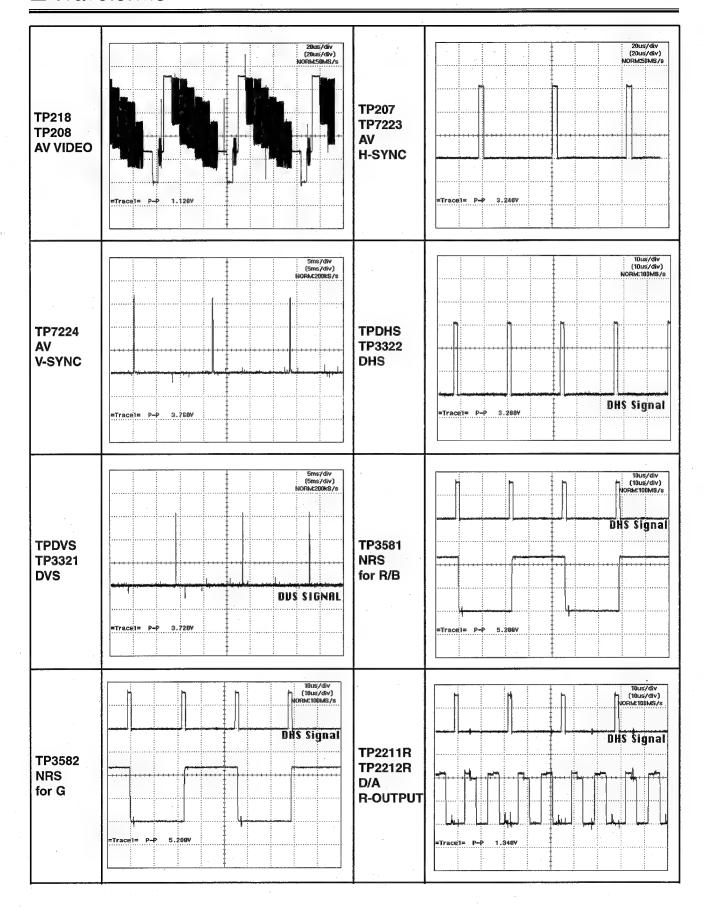


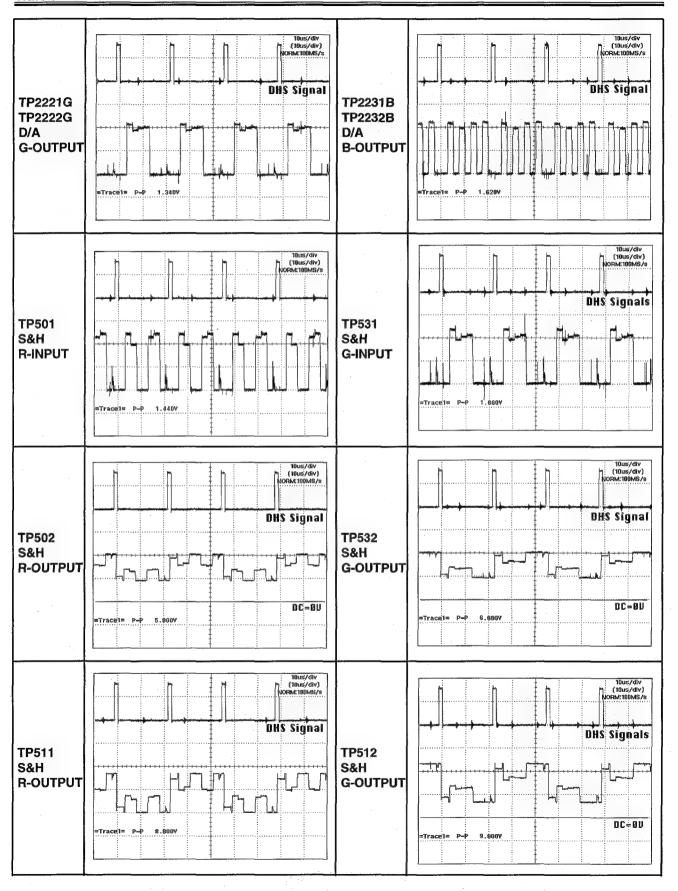
■ Control Port Functions

● System Control & I/O Port Functions

IC Ref. No	Pin/Name	1/0	Signal Name	Function	Note	
IC301	PortA0	1/0	ROMWEL	For ICE		
	PortA1	1/0	ROMWEH	For ICE		
	PortA2	I/O	BOOTWE	For ICE		
	PortA3	1/0	Not used	Fixed High		
	PortA4	0	5V SW	Power ON/OFF	MainPower-ON: High	
	PortA5	Ō	LAMP_BST_SW	Lamp Ballast ON/OFF	Lamp Ballast-ON: High	
	PortA6	Ö	IO Reset	Initialize I/O	I/O Active: Low	
	PortA7	0	LAMP POW	Lamp-ON	Lamp-ON: High	
	PortB0	1/0	3L EN	3-Line Serial ON/OFF	Serial Line-ON: Low	
	PortB1	1/0	PortB1	MatrixSDA	Cond. Enter Cont. Edit	
	PortB2	1/0	Mouse1	Mouse Control	Air Mouse-ON: High	
		1/0	Not used	Fixed High	Pair Woodse City, Flight	
ŀ	PortB3					
	PortB4	1/0	SCL_IN	Fixed High		
	PortB5	1/0	Not used	Fixed High		
	PortB6	1/0	M_SCL	IIC CLK		
	PortB7	1/0	M_SDA	IIC DATA		
IC1803	12	0	Mute	Mute	Mute-OFF: High	
	13	0	LAMP_REP_LED	Lamp Replace LED Drive	ON: High	
	14	0	READY_LED	Ready LED Drive	ON: High	
	15	0	TEMP_LED	Temp Warning LED Drive	ON: High	
	16	0	POW_LED	Power LED Drive	ON: High	
	17	0	KO3	Main Key Switch		
	18	0	KO2	Main Key Switch		
	19	0	KO1	Main Key Switch		
IC1804	12	0	CG_Filter	CG Filter ON/OFF	ON: High	
101004	13	0	VHDREN	Philips chip Enable	ON: High	
	14	Ö	VFIELD SW	VField PC/AV Selection	Video V Field: High	
	15	Ö	Y/G SW	Sync Sep. Y/G Selection	Y: High G: Low	
		0	PC/AV_SW	PC/AV Selection	PC: High AV: Low	
	16		S/CV SW	Video/Component Selection	Video: Low Component: High	
	17	0			Normal: High Standby: Low	
	18	0	PeriPow_SW	Power consumption SW in ST		
	19	0	FanDrive_SW	Fan Drive ON/OFF	Fan Drive ON: High OFF: Low	
IC1806	12	0	SCLK	3-Line Serial Clock		
	13	0	SDATA	3-Line Serial Data	5 . = " "	
	14	0	DAC_STLOBE	DAC	Data Effective: Low	
	15	0	S&H_STLOBE	S&H	Data Effective: High	
	16	0	IRM_STLOBE	White Uniformity	Data Effective: Low	
	17	0	FAN_CONT2	Digital Pot.Chip Enabnle	Data Effective: Low	
	18	0	FAN_CONT1	Fan Voltage Enable	Fan Control ON: High	
	19	0	Not used			
IC1807	12	0	Not used			
	13	0	DVS2	Vsync x 2Hz Output		
	14	ō	LAMP_ON	Output Clock ON/OFF	Output Clock ON: High	
	15	0	LIM-OFF			
	16	Ö	PWDN	For AD9884 Power Down	AD Power Down: High	
	17	0	NYSE	. C. ALDOGGET ON OF DOMES		
			CTS33	RS232C Relation		
	18	<u> </u>		TOLOLO I TETALIOTI		
101055	19	0	Not used	Main Kev Switch		
IC1808	2	-	KI1			
	3		KI2	Main Key Switch		
	4		KI3	Main Key Switch		
	5		KI4	Main Key Switch		
•	6		Power_fail	Power Fail Detection	Abnormal: Low Normal: High	
	7		Not used			
	8		Lamp_ERR	Lamp Fail	Abnormal: Low Normal: High	
	9	1	Not used			
IC1809	2		SIN			
	3	l i	CB SW	Component		
	4	- 	CR SW	Component		
	5	 	CTS/V			
		+ +	OTO/V	OEM Option		
	6	 		OEM Option		
	7	 				
	8	 		OEM Option	CVCA-Low Video Crede: High	
	9	[]		SVGA/Video grade SW	SVGA: Low Video Grade: High	

■ Waveforms





TP561 S&H B-INTPUT	BHS Signal Tracel= P-P 1.400V	
TP562 S&H B-OUTPUT	10us/div (10us/div (10us	
TP513 S&H B-OUTPUT	DHS Signal	

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

- Remove the cabinet top following to "Mechanical Disassemblies".
- 2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resinbased nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

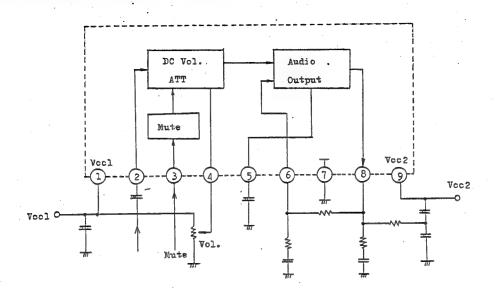
- 1. Remove the cabinet top and main units following to "Mechanical Disassemblies".
- Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
- Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

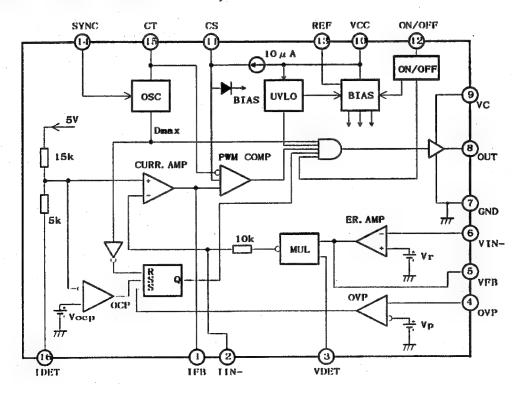
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

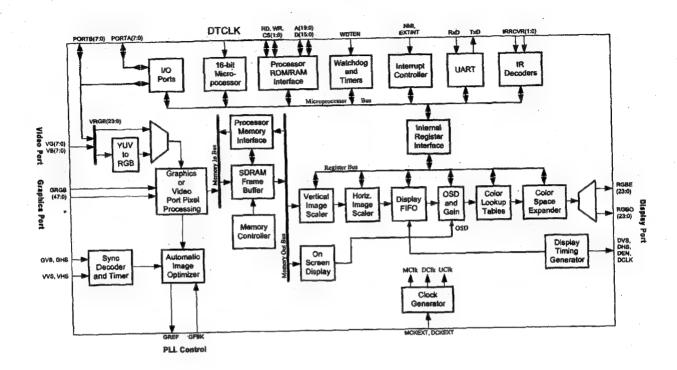
● AN5265 <AUDIO OUTPUT, IC001>



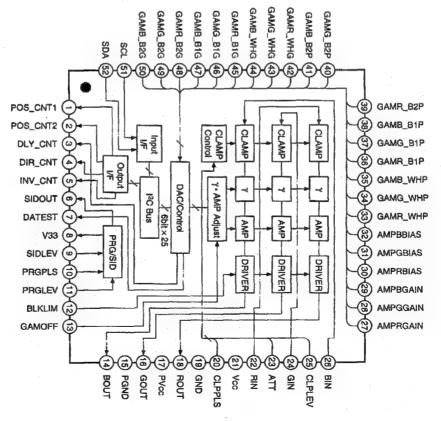
● FA5332M <Power Factor Control, IC01>



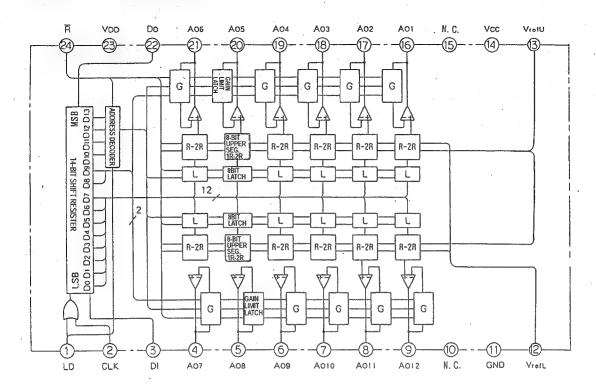
PW164-10RK <System Control/Scan Converter, IC301>



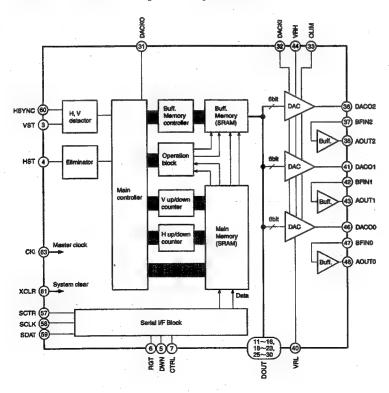
● CXA2111R <LCD Driver, IC401>



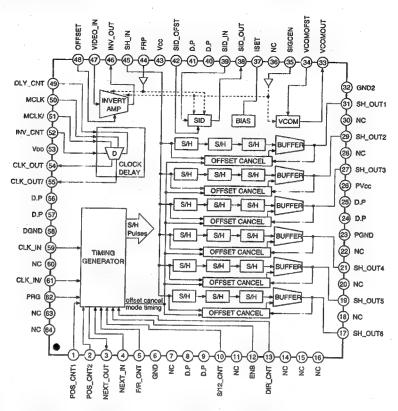
● M62358FP <DAC, IC431>



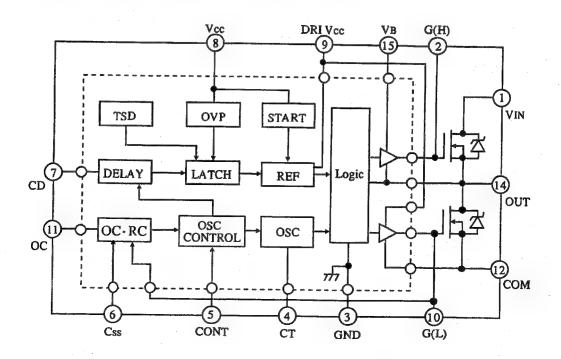
● CXD3503R <White Uniformity Compensation, IC471>



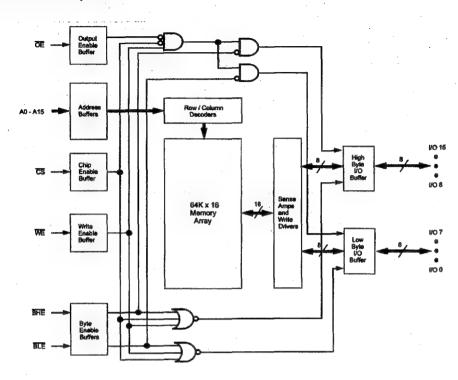
● CXA2112R <Sample & Hold, IC501, IC531, IC561>



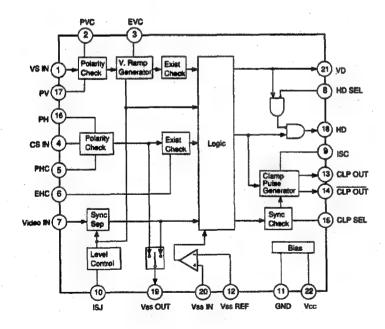
● STR-Z2156 < Power Switching Control, IC631>



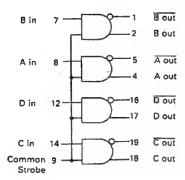
● IDT71V016S <RAM, IC811>



● CXA2016S <Sync Separator, IC1021>

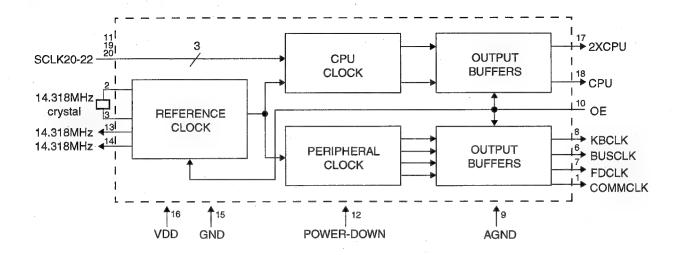


● MC10H351ML <IC1501>

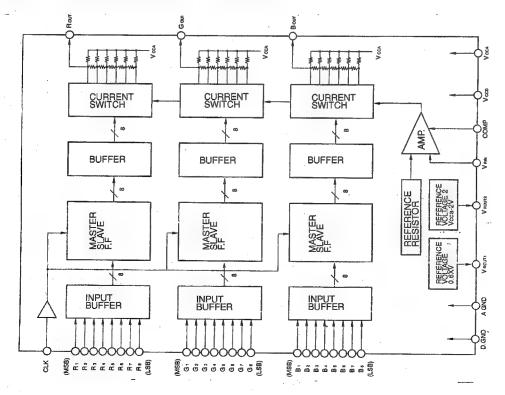


● LM76CHMX <Thermal Sensor, IC1831, IC1832>

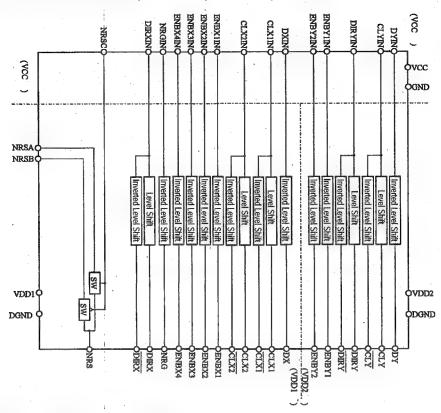
• AV9155C <PLL, IC1961>



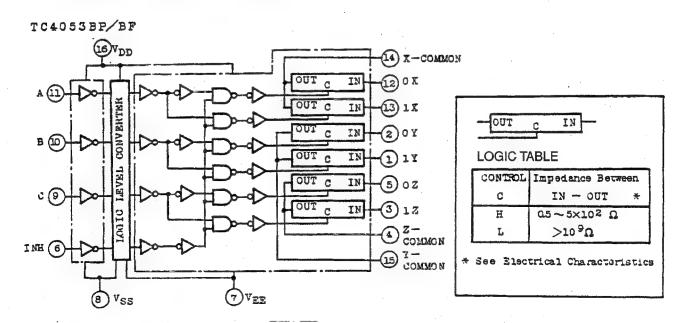
● MB40988PFQ<D/A Converter, IC2200>



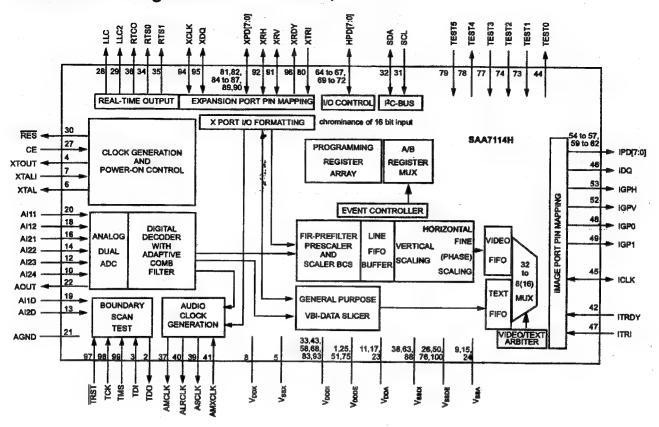
● ET1030F0A <Level Shift, IC3501, IC3531, IC3561>



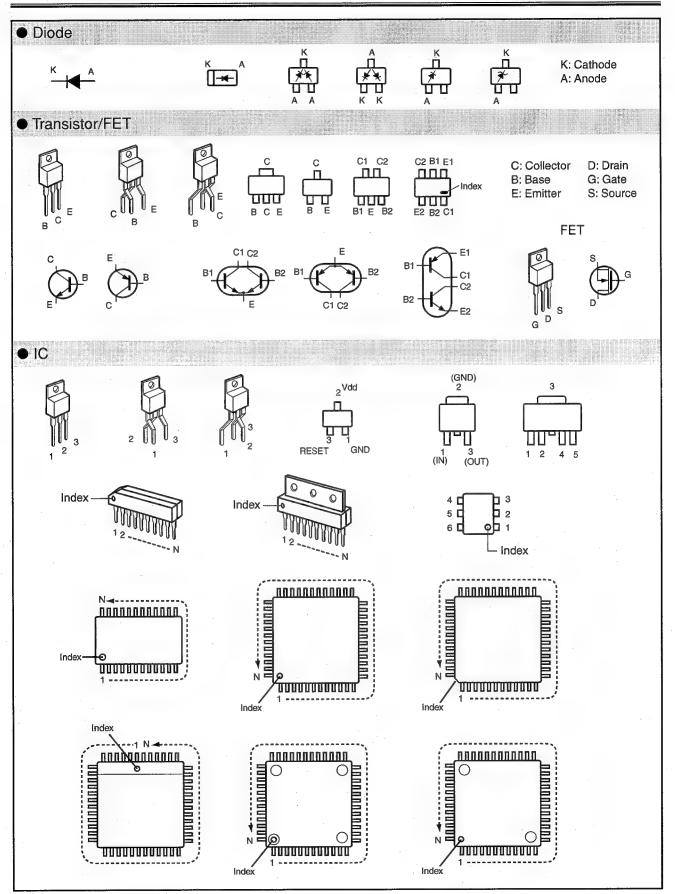
● TC4053BF <Switching, IC5001>



● SAA7114H < Digital Video Processor, IC5101>



■ Pin description of diode, transistor and IC



■ Parts description and reading in schematic diagram

- The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
- Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
- Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
- Voltages were taken with a high-impedance digital voltmeter.

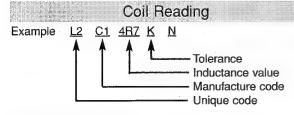
Capacitor Reading K K 1000 BG 2000 Example Characteristic Example 160 Ē M 10 Capacitance value Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF. Tolerance Type Rated voltage

Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
С	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
Н	Metalized polypromylar
В	Ceramic (semiconductor)
G	Metalized polyestel
Υ	Composite film
S	Styrol
Т	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

Mark	Tolerar	ice		
Α	not spec	cified		
В	±0.	1		
Ċ	±0.	25		
D	±0.	5		
F	±1			
G	±2			
E	±2.	5		
Н	±3			
J	±5			
K	± 0			
M	±20			
N	±30			
Р	+100	-0		
Q	+30	-10		
T	+50	-10		
U	+75	-10		
V	+20 -10			
W	+100 -10			
X	+40 -20			
Y	+150	-10		
Z	+80	-20		



Mark	Tolerance (nH)	Mark	Tolerance (%)
С	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading Example 1/2 D J 10K B Characteristic Example W K 8.2 Z (Carbon fuse) B (Non-burnable) Example 1/2 C K indicates in K Ω M indicate in $M\Omega$ Resistance value Tolerance (see below table) Material (see below table) Rated wattage (W)

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Tolerance table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
С	Solid
G	Metal glaze
W	Wire wounding or cement
Н	Ceramic
F	Fusible

Mark	Tolerance					
Α	±0.05					
В	±0.1					
C	±0.25					
D	±0.5					
F	±1					
G	±2					
J	±5					
K	±10					
M	±20					
Р	+5 -15					
Z	used in 0 ohm					

Diode/Transistor Type Reading

Diode

Mark	Type number	
R	1S2076A,1S2473,1N4148	
AA	1S2076A,1S2473,1SS133,1N4148	

Transistor

(1) NPN type

(.,	(1) 11 17 3/20							
Mark	Type number							
	2SC536	2SC945A	2SC1815	2SC1740S				
AD	NF, NG	PA, QA, RA	Y, GR	Q, R, S				
AE	NF, NG	PA, QA	O, Y, GR	Q, R, S				

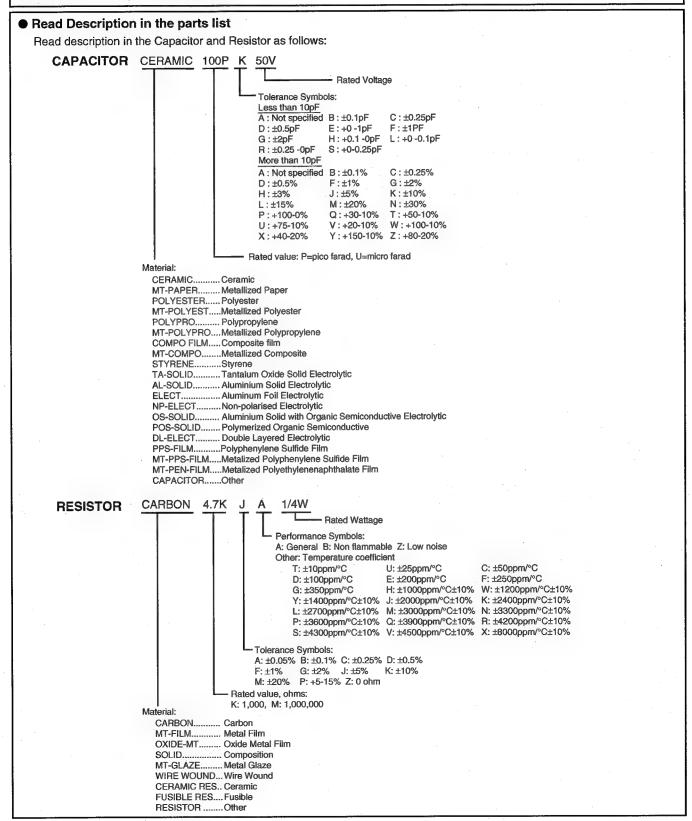
(2) PNP type

Mark		Type number						
P.40	2SA608	2SA564A	2SA1015	2SA933S				
AB	NF	R	Y, GR	R				
AC	NF	Q, R	O, Y, GR	Q, R				

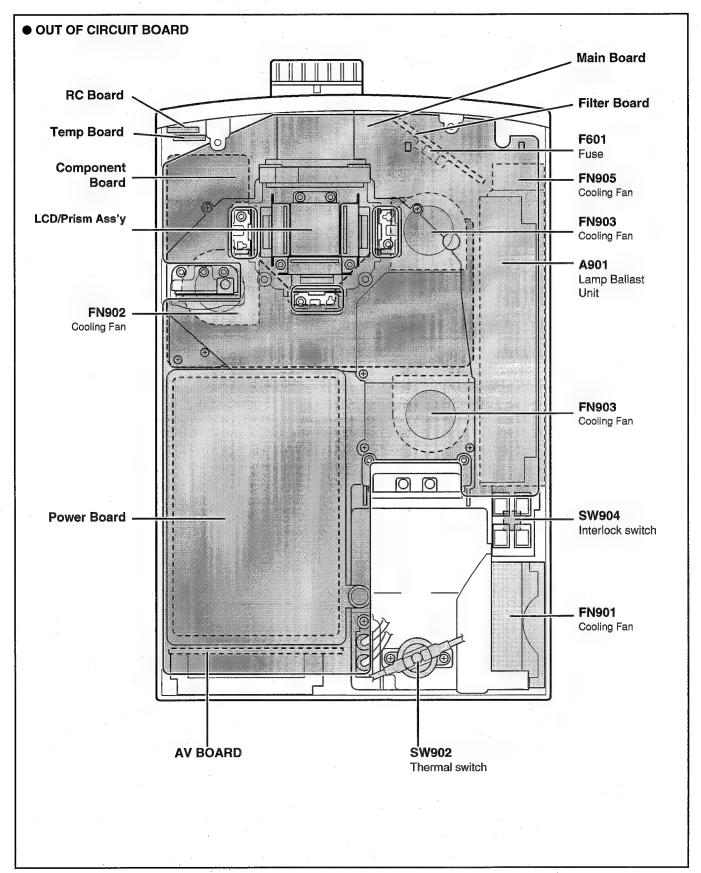
(3) Chip type

Mark	Type number							
	2SA1179	2SA1037K	2SA1037AK	2SC2812	2SC2412K			
AJ	M6, M7	R, S	R, S					
AH				L6, L7	R, S			

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.



Note: Parts order must contain Chassis No., Part No., and Descriptions.



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
OUT OF C	IRCUIT BOAR	DS	RESISTOR		
A			R1011	401 105 0405	MT-GLAZE 100 JA 1/16W
△ LP900	610 287 5386 610 291 0032	LAMP ASSY (POA-LMP25) LAMP ASSY (POA-LMP34)	R1021 R1024	401 105 0405 401 105 0504	MT-GLAZE 100 JA 1/16W MT-GLAZE 1K JA 1/16W
∆ L901	645 044 6207	CORE, FERRITE	R1024 R1026	401 203 9805	MT-GLAZE 2.7K FA 1/16W
		CORE, FERRITE	R1027	401 247 0202	MT-GLAZE 3.9K FA 1/16W
MISCELLAN			R1028	401 105 0405	MT-GLAZE 100 JA 1/16W
△ A901	645 041 5302	UNIT, BALLAST	R1031	401 105 0603	MT-GLAZE 10K JA 1/16W
A C901	404 071 4507	CERAMIC 470P K 400V	R1032	401 105 0504	MT-GLAZE 1K JA 1/16W
△ C902	404 071 4507	CERAMIC 470P K 400V	R1035	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ FN901	645 041 6057	MOTOR, FAN DC 1.86W	R1036	401 105 0405	MT-GLAZE 100 JA 1/16W
△ FN902 △ FN903	645 041 7856	MOTOR, FAN DC 2.2W	R1037	401 105 0405	MT-GLAZE 100 JA 1/16W
△ FN903 △ FN904	645 041 7856 645 041 6088	MOTOR, FAN DC 2.2W MOTOR, FAN DC 1.56W	R1043	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ FN904 △ FN905	645 042 7824	MOTOR, FAN DC 1.56W	R1049	401 105 4205	MT-GLAZE 33K JA 1/16W
⚠ IL901	645 041 4978	SOCKET, INLET AC	R1051	401 105 2706	MT-GLAZE 220 JA 1/16W
SP901	645 030 6150	SPEAKER, 8	R1053	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
△ SW902	645 026 5457	SWITCH, THERMAL	R1054	401 211 9903	MT-GLAZE 12K FA 1/16W
	645 041 9164	SWITCH, THERMAL	R1056	401 211 9903	MT-GLAZE 12K FA 1/16W MT-GLAZE 0.000 ZA 1/16W
∆ sw904	645 024 8986	SWITCH, PUSH 2P-2TX2	R1067	401 105 7909 401 105 2706	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 220 JA 1/16W
WK3C-K6J	645 043 5621	CORD, ID CONNECTOR	R1068 R1071	401 105 2706	MT-GLAZE 2.2K JA 1/16W
WK3D-K6K	645 043 5638	CORD, ID CONNECTOR	R1071 R1075	401 105 2805	MT-GLAZE 2.2K JA 1/16W MT-GLAZE 1K JA 1/16W
WK8CC-BA	645 043 5645	CORD, ID CONNECTOR	R2001	401 105 0304	MT-GLAZE 33K JA 1/16W
WK8D-RC	645 040 1596	CORD, ID CONNECTOR	R2001	401 105 4205	MT-GLAZE 100 JA 1/16W
WK8G-K8H	645 044 1295	CORD, ID CONNECTOR	R2003TM	401 027 6608	CARBON 75 JA 1/6W
			R2007TM	401 027 6608	CARBON 75 JA 1/6W
			R2011TM	401 027 6608	CARBON 75 JA 1/6W
610 286 62	254 ASSY,PWE	B,AV MK6A	R2013TM	401 027 6608	CARBON 75 JA 1/6W
1AA0B10C	2820A		R2016TM	401 027 6608	CARBON 75 JA 1/6W
			R2018	401 105 5509	MT-GLAZE 470K JA 1/16W
	_		R2019	401 105 0405	MT-GLAZE 100 JA 1/16W
TRANSISTO		ED DE0114ETT E146	R2021	401 105 5509	MT-GLAZE 470K JA 1/16W
Q1001	405 132 3101	TR DTC114EKA-T146 TR DTC114EKA-T146	R2022	401 105 0405	MT-GLAZE 100 JA 1/16W
Q1002	405 132 3101	TR DICIIGBRA-TIG6	R2023	401 105 5509	MT-GLAZE 470K JA 1/16W
INTEGRATE	D CIRCUIT		R2024	401 105 0405	MT-GLAZE 100 JA 1/16W
IC1001	409 461 7304	IC AD8057ART	R2026	401 105 5509	MT-GLAZE 470K JA 1/16W MT-GLAZE 100 JA 1/16W
IC1021	409 417 1400	IC CXA2016S	R2027 R2093	401 105 0405 401 105 0702	MT-GLAZE 100 JA 1/16W
CAPACITOR	!		R2094	401 105 0702	MT-GLAZE 100 JA 1/16W
C1006	403 157 3601	CERAMIC 100P J 50V	R2096	401 105 0702	MT-GLAZE 100K JA 1/16W
C1007	403 348 5803	CERAMIC 0.47U K 10V	R2097	401 105 0405	MT-GLAZE 100 JA 1/16W
C1009	403 157 1904	CERAMIC 10P D 50V	•		
C1011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	COIL		
C1014	403 162 4006	ELECT 22U M 6.3V	L1001	645 024 0669	FILTER, EMI 20PF
C1016	403 298 9609	CERAMIC 0.1U K 16V	L1002		FILTER, EMI 20PF
C1017	403 162 4006	ELECT 22U M 6.3V	L1003	645 024 0669	FILTER, EMI 20PF
C1018	403 298 9609	CERAMIC 0.1U K 16V	L1006	645 025 0637	FILTER, EMI 190PF FILTER, EMI 190PF
C1028	403 205 7803	TA-SOLID 2.2U M 16V	L1007 L1017	645 014 2659	
C1029	403 325 6304	CERAMIC 0.22U K 10V	L1017	645 014 2659	
C1031	403 325 6304	CERAMIC 0.22U K 10V	L1018	645 014 2659	
C1032	403 091 0209	TA-SOLID 1U M 16V	L1021	645 014 2659	
C1033	403 298 9609	CERAMIC 0.1U K 16V	L1022	645 014 2659	
C1034	403 325 6304	CERAMIC 0.22U K 10V	L1023	645 014 2659	
C1036	403 091 0209	TA-SOLID 1U M 16V	L1024	645 014 2659	
C1038	403 298 9609	CERAMIC 0.1U K 16V	L2001	403 366 6202	CERAMIC 22U Z 10V
C1039	403 162 4006	ELECT 22U M 6.3V CERAMIC 3300P K 50V	L2002	403 366 6202	CERAMIC 22U Z 10V
C1043	403 155 2200 403 298 9609	CERAMIC 3300P K 50V CERAMIC 0.1U K 16V	L2003	645 014 2659	
C1044	403 298 9609	CERAMIC 0.10 K 16V	L2004	645 002 3934	
C1046 C2001	403 298 9609	CERAMIC 0.10 K 16V	L2006	645 002 3934	FILTER, EMI 50MHZ
C2001 C2018TM	403 298 9609	CERAMIC 0.10 K 16V	L2007	645 002 3934	FILTER, EMI 50MHZ
C2018TM C2021TM	403 068 9006	CERAMIC 100P J 50V	L2008	645 002 3934	FILTER, EMI 50MHZ
C2021TM	403 157 3001	CERAMIC 100P K 50V	L2009	645 002 3934	FILTER, EMI 50MHZ
C2025TM	403 157 3601	CERAMIC 100P J 50V	L2011TM	403 258 7102	
C20201M	403 068 9006	CERAMIC 100P K 50V	L2012	403 366 6202	CERAMIC 22U Z 10V
			L2013	403 366 6202	CERAMIC 22U Z 10V
C2096TM	403 157 3601	CERAMIC 100P J 50V	L2016		FILTER, EMI 10MHZ

				T	
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L2017	645 014 2659	FILTER, EMI 10MHZ		405 014 4608	TR 2SC2412K T146 S
L2021	645 014 2659	FILTER, EMI 10MHZ		405 015 8704	TR 2SC2812-L6-TB
L2022	645 014 2659	FILTER, EMI 10MHZ		405 015 8902	TR 2SC2812-L7-TB
L2091	645 014 2659	FILTER, EMI 10MHZ	Q2661	405 014 4509	TR 2SC2412K T146 R
L2092	645 014 2659	FILTER, EMI 10MHZ		405 014 4608	TR 2SC2412K T146 S
DIODE		•		405 015 8704 405 015 8902	TR 2SC2812-L6-TB TR 2SC2812-L7-TB
D1001	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	Q2671	405 013 6902	TR 2SC2412K T146 R
D1002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	Q2071	405 014 4608	TR 2SC2412K T146 K
D1003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1006	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1007	407 187 8209	ZENER DIODE UDZ12B-TE-17	Q2681	405 014 4509	TR 2SC2412K T146 R
D1008	407 149 0807	DIODE 1SS355-TE-17		405 014 4608	TR 2SC2412K T146 S
D1009	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1010 D1012	407 149 0807 407 149 0807	DIODE 1SS355-TE-17 DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1012	407 149 0807	DIODE 1SS355-TE-17 DIODE 1SS355-TE-17	Q2691	405 014 4509	TR 2SC2412K T146 R
D1013	407 149 0807	DIODE 188355-TE-17		405 014 4608	TR 2SC2412K T146 S
D1014	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1022	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1023	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q2701	405 047 9007	TR 2SB1204-S-TL
D1024	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q2702	405 047 9106 405 014 4509	TR 2SB1204-T-TL TR 2SC2412K T146 R
D1026	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q2702	405 014 4608	TR 2SC2412K T146 K
D1027	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D1028	407 187 8605	ZENER DIODE UDZ20B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D1029	407 187 8605	ZENER DIODE UDZ20B-TE-17	Q6611	405 014 4509	TR 2SC2412K T146 R
D1031	407 187 8605	ZENER DIODE UDZ20B-TE-17	~	405 014 4608	TR 2SC2412K T146 S
D2001	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D2002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17 ZENER DIODE UDZ6.2B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D2003 D2004	407 179 0501 407 179 0501	ZENER DIODE UDZ6.2B-TE-17	INTEGRATE	D CIRCUIT	
D2004	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2641	409 461 7809	IC PQ20WZ11
D2007	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2651	409 461 7809	IC PQ20WZ11
D2008	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2661	409 461 7809	IC PQ20WZ11
D2009	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2671	409 461 7809	IC PQ20WZ11
D2011	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2681	409 461 7809	IC PQ20WZ11
D2012	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	IC2691	409 461 7809	IC PQ20WZ11
D2013	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	CAPACITOR		
D2016	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2501	403 229 3508	ELECT 100U M 16V
D2017	407 187 8209	ZENER DIODE UDZ12B-TE-17	02301	403 335 0408	ELECT 100U M 16V
D2018	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2502	403 164 0204	CERAMIC 0.1U Z 25V
D2019	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2503	403 164 0204	CERAMIC 0.1U Z 25V
D2021 D2022	407 187 8209 407 187 8209	ZENER DIODE UDZ12B-TE-17 ZENER DIODE UDZ12B-TE-17	C2504	403 164 0204	CERAMIC 0.1U Z 25V
D2022	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2506	403 164 0204	CERAMIC 0.1U Z 25V
D2023	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2507	403 164 0204	
D2024	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2508	403 164 0204	
D2092	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2511	403 341 8801	
D2093	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2512	403 164 0204	
D2.094	407 187 8209	ZENER DIODE UDZ12B-TE-17	C2513	403 341 8801	ELECT 10U M 25V CERAMIC 0.1U Z 25V
MISCELLAN	FOUS		C2514 C2516	403 164 0204 403 341 8801	ELECT 10U M 25V
K1001	645 009 8093	SOCKET, D-SUB 15P	C2516 C2517	403 164 0204	CERAMIC 0.1U Z 25V
K1001 K1002	645 000 2595	SOCKET, DIN 8P	C2641	403 229 3508	ELECT 100U M 16V
K2001	610 010 8295	SOCKET, DIN 4P		403 335 0408	ELECT 100U M 16V
K2002	645 042 2799	JACK, RCA-3	C2642	403 149 9208	CERAMIC 0.01U Z 50V
K2003	645 000 2571	JACK, PHONE D8.0	C2643	403 149 9208	CERAMIC 0.01U Z 50V
K2004	645 000 2571	JACK, PHONE D8.0	C2651	403 229 3508	ELECT 100U M 16V
K2005	645 000 2571	JACK, PHONE D8.0		403 335 0408	ELECT 100U M 16V
SW1001	645 042 8104	SWITCH, PUSH 1P-1TX1	C2652	403 149 9208	CERAMIC 0.01U Z 50V
			C2653	403 149 9208	CERAMIC 0.01U Z 50V
			C2661	403 229 3508	ELECT 100U M 16V
610 286 6	261 ASSY,PWE	B,COMPONENT MK6A	go 6 6 6	403 335 0408	ELECT 100U M 16V
1AA0B10C	2820B	· ·	C2662	403 149 9208	CERAMIC 0.01U Z 50V
			C2663 C2671	403 149 9208 403 229 3508	CERAMIC 0.01U Z 50V ELECT 100U M 16V
TOANGICTO	В		-C20/1	403 229 3508	ELECT 1000 M 16V
TRANSISTO		mp 20024127 m146 p	C2672	403 149 9208	CERAMIC 0.01U Z 50V
Q2651	400 014 4509	TR 2SC2412K T146 R			

Ref. No.	Part No.	Description	n	Ref. No.	Part No.	Description
C2673	403 149 9208	CERAMIC	0.01U Z 50V	R2671	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C2681	403 229 3508	ELECT	100U M 16V	. R2672	401 105 5301	MT-GLAZE 4.7K JA 1/16W
	403 335 0408	ELECT	100U M 16V	R2676	401 105 2409	MT-GLAZE 2K JA 1/16W
C2682	403 149 9208	CERAMIC	0.01U Z 50V	R2677	401 162 6303	MT-GLAZE 330 JA 1W
C2683	403 149 9208	CERAMIC	0.01U Z 50V	R2678	401 162 6303	MT-GLAZE 330 JA 1W
C2691	403 229 3508	ELECT	100U M 16V	R2679	401 162 6303	MT-GLAZE 330 JA 1W
02602	403 335 0408 403 149 9208	ELECT CERAMIC	100U M 16V 0.01U Z 50V	R2681 R2682	401 102 7506 401 102 7506	MT-GLAZE 22 JA 1W MT-GLAZE 22 JA 1W
C2692 C2693	403 149 9208	CERAMIC	0.01U Z 50V 0.01U Z 50V	R2683	401 102 7506	MT-GLAZE 22 JA 1W MT-GLAZE 22 JA 1W
C6614	403 229 3508	ELECT	100U M 16V	R2684	401 102 7506	MT-GLAZE 22 JA IW MT-GLAZE 1K JA 1/16W
C0014	403 335 0408	ELECT	1000 M 16V	R2686	401 105 0504	MT-GLAZE 1K JA 1/16W
C6616	403 229 3508	ELECT	1000 M 16V	R2687	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	403 335 0408	ELECT	100U M 16V	R2688	401 105 5301	MT-GLAZE 4.7K JA 1/16W
PERIOTOR				R2693	401 105 2409	MT-GLAZE 2K JA 1/16W
RESISTOR	101 105 0006		10 77 1/1/77	R2694	401 162 6303	MT-GLAZE 330 JA 1W
R2500	401 105 0306	MT-GLAZE	10 JA 1/16W	R2695	401 162 6303	MT-GLAZE 330 JA 1W
R2501 R2502	401 035 4108 401 035 4108	MT-GLAZE MT-GLAZE	0.000 ZA 1/8W 0.000 ZA 1/8W	R2696	401 162 6303	MT-GLAZE 330 JA 1W
R2502	401 105 0306	MT-GLAZE	10 JA 1/16W	R2697	401 102 7506	MT-GLAZE 22 JA 1W
R2504 R2506	401 105 0306	MT-GLAZE	10 JA 1/16W	R2698	401 102 7506	MT-GLAZE 22 JA 1W
R2507	401 105 0306	MT-GLAZE	10 JA 1/16W	R2699	401 102 7506	MT-GLAZE 22 JA 1W
R2508	401 105 0306	MT-GLAZE	10 JA 1/16W	R2701	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2509	401 105 0306	MT-GLAZE	10 JA 1/16W	R27.02	401 230 4705	MT-GLAZE 680 JA 1W
R2511	401 105 0306	MT-GLAZE	10 JA 1/16W	R2703	401 113 6109	MT-GLAZE 2.4K JA 1/16W
R2512	401 105 0306	MT-GLAZE	10 JA 1/16W	R2704 R6614	401 105 0504 401 105 0603	MT-GLAZE 1K JA 1/16W
R2513	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6616	401 105 0603	MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W
R2514	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6618	401 105 0003	MT-GLAZE 10K JA 1/16W MT-GLAZE 5.6K JA 1/16W
R2520	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R6619	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2521	401 105 0306	MT-GLAZE	10 JA 1/16W	R6631	401 105 0504	MT-GLAZE 1K JA 1/16W
R2522	401 105 0306	MT-GLAZE	10 JA 1/16W	R6633	401 105 0504	MT-GLAZE 1K JA 1/16W
R2523	401 105 0306	MT-GLAZE	10 JA 1/16W	R6634	401 113 6208	MT-GLAZE 3.6K JA 1/16W
R2524	401 105 0306	MT-GLAZE	10 JA 1/16W	R6635	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2525	401 105 0306	MT-GLAZE	10 JA 1/16W	R6641	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R2526	401 105 0306	MT-GLAZE	10 JA 1/16W	R6642	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2528 R2529	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R6643	401 105 2409	MT-GLAZE 2K JA 1/16W
R2531	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6644	401 288 0506	MT-GLAZE 750 JA 1W
R2532	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6645	401 288 0506	MT-GLAZE 750 JA 1W
R2538	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6646	401 288 0506	MT-GLAZE 750 JA 1W
R2539	401 148 6006	MT-GLAZE	2.2 JA 1/16W	R6647	401 104 6002	MT-GLAZE 100 JA 1W
R2540	401 105 0306	MT-GLAZE	10 JA 1/16W	R6648	401 104 6002	MT-GLAZE 100 JA 1W
R2542	401 105 0306	MT-GLAZE	10 JA 1/16W	R6649	401 104 6002	MT-GLAZE 100 JA 1W
R2543	401 105 0306	MT-GLAZE	10 JA 1/16W	R6651 R6653	401 105 0504 401 105 7909	MT-GLAZE 1K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R2544	401 105 0306	MT-GLAZE	10 JA 1/16W	R6661	401 105 7909	
R2545	401 105 0306	MT-GLAZE	10 JA 1/16W	R6663	401 105 0504	MT-GLAZE 1K JA 1/16W MT-GLAZE 1K JA 1/16W
R2546	401 105 0306	MT-GLAZE	10 JA 1/16W	R6664	401 103 0304	
R2548		MT-GLAZE	10 JA 1/16W	R6665	401 105 7909	
R2549	401 105 0306		10 JA 1/16W	R6671	401 105 0504	
R2641	401 105 1501	MT-GLAZE	1.5K JA 1/16W	R6673	401 105 7909	
R2642	401 105 6001	MT-GLAZE	5.6K JA 1/16W	R6681	401 105 6001	
R2643	401 105 2409	MT-GLAZE	2K JA 1/16W	R6682	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2647	401 102 7506	MT-GLAZE	22 JA 1W	R6683	401 105 2409	
R2648	401 102 7506	MT-GLAZE	22 JA 1W	R6684	401 162 6303	MT-GLAZE 330 JA 1W
R2649TM	401 102 7506 401 105 0504	MT-GLAZE	22 JA 1W	R6685	401 162 6303	MT-GLAZE 330 JA 1W
R2651 R2653	401 103 0504	MT-GLAZE MT-GLAZE	1K JA 1/16W 3.6K JA 1/16W	R6686	401 162 6303	
R2654	401 113 6208	MT-GLAZE	0.000 ZA 1/16W	R6687	401 198 7909	
R2655	401 105 7909	MT-GLAZE	5.6K JA 1/16W	R6688	401 198 7909	
R2659	401 105 2409	MT-GLAZE	2K JA 1/16W	R6689	401 198 7909	MT-GLAZE 47 JA 1W
R2661	401 185 9701	MT-GLAZE	470 JA 1W	R6691	401 105 0504	MT-GLAZE 1K JA 1/16W
R2662	401 185 9701	MT-GLAZE	470 JA 1W	R6693	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2663	401 185 9701	MT-GLAZE	470 JA 1W	R6697	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2664	401 198 7503	MT-GLAZE	15 JA 1W	COIL		
R2665	401 198 7503	MT-GLAZE	15 JA 1W	L2501	401 036 8907	MT-GLAZE 5.6 JA 1/8W
R2666	401 198 7503	MT-GLAZE	15 JA 1W	DIODE	•	
R2666 R2667	401 198 7503 401 105 0504	MT-GLAZE MT-GLAZE	15 JA 1W 1K JA 1/16W	DIODE D2502	407 149 0807	DIODE 1SS355-TE-17

Ref. No.	Part No.	Description	1		Ref. No.	Part No.	Descriptio	n	
D2651	407 149 0807	DIODE 1SS3	55_TR_17 ·						
D2661	407 149 0807	DIODE 1SS3			ACCV DWD	DOWED MYS			
D2671	407 149 0807	DIODE 1SS3	55-TE-17		ASST,PWD,I	POWER MK6/	L		
D2681	407 149 0807	DIODE 1SS3							
D2691	407 149 0807	DIODE 1SS3			TRANSISTO	R	•		
D6611	407 004 0706	DIODE DCB0	15-TB		Q611	405 140 370			
					Q641	405 134 590			
610 286 03	309 ASSY,PWE	R R/C MK6A			Q661 Q662	405 014 450 405 014 450			
1AA0B10C		o, i bo i i i i con	•		Q663	405 014 450			
TAAUDTUC	20200				Q671	405 138 130			
					~	405 138 140			
CAPACITOR					Q672	405 014 450	9 TR 2SC2412	K T146 R	
C2801	403 283 6309	CERAMIC	1U Z	10V	Q681	405 144 650	3 TR 2SK2312		
C2802	403 157 6602	CERAMIC	470P K	50V	INTEGRATE	D CIRCUIT			
C2803	403 304 2402	ELECT	100U M	10V	IC631	409 421 470	1 IC STR-Z21	56	
RESISTOR					IC656	409 344 650	9 IC UPC1093	T-E1	
RC2801	645 034 5029	UNIT, REMOC	ON RECEIVE	SR.	CAPACITOR				
R2801	401 105 2706	MT-GLAZE	220 JA		C611	403 165 600	7 CERAMIC	1000P K	1K
R2802	401 105 0405	MT-GLAZE	100 JA		C612	403 165 600		1000F K	1K
R2803	401 105 2706	MT-GLAZE	220 JA	T\TPM	C616	403 275 600			400V
					C617	403 119 800		470U M	25V
610 220 22	09 ASSY,PWE	R DOWED M	KEN SED	VICE	C618	404 084 020		120U M	450V
010 209 30	09 A331,PW	S,FOWER IVI	KOA SEN	VICE	C619	403 323 870			450V
					C620	403 323 870			450V
ASSY,PWB,I	HIC MK6A				C630	403 156 900		2.2U M	50V
, ,					C631	403 237 790 403 069 170		0.22U J 1000P K	50V 50V
TDANGISTO	.				C632 C633	403 165 880		330P K	2K
TRANSISTO	H 405 014 4509	TR 2SC2412	v m146 p		C634	403 103 860		0.1U Z	50V
Q01 Q02	405 014 4509	TR 2SC2412.			C635	403 232 100		100P K	2K
		IN ZDAIOS	AR 1140 R		C636	403 084 350		6800P J	630V
INTEGRATEI					C637	403 074 950	2 CERAMIC	680P K	50V
IC01	409 483 3803	IC FA5332M			C638	403 156 880	5 ELECT	1U M	50V
CAPACITOR					C639	403 148 180		220U M	35V
C01	403 074 9502	CERAMIC	680P K	50V	C640	403 070 260		0.1U Z	50V
C02	403 075 2304	CERAMIC	0.068U Z	50V	C641	403 269 590		0.22U K 0.1U Z	16V 50V
C03	403 070 2606	CERAMIC	0.1U Z	. 50V	C642 C643	403 070 260 403 166 980		0.10 Z	25V
C04	403 030 7009	CERAMIC CERAMIC	68P J 0.01U K	50V	△ C648	404 059 92		1000P M	400V
C05	403 069 5601 403 073 7301	CERAMIC	470P K	50V 50V	△ C649	404 059 92		1000P M	400V
C07	403 070 2606	CERAMIC	0.1U Z	50V	C651	403 350 500	6 ELECT	1000U M	25V
C08	403 074 3104	CERAMIC	0.047U Z	50V	C652	403 356 000	5 ELECT	3900U M	10V
C10	403 070 2606	CERAMIC	0.1U Z	50V	C653	403 155 560		220U M	10V
C11	403 070 2606	CERAMIC	0.1U Z	50V	C654	403 076 200		330P K	500V
RESISTOR					C655	403 076 200		330P K	500V
RO1	401 038 0800	MT-GLAZE	22K JA	1/10W	C656	403 256 080		0.47U J	50V
RO1	401 038 0800	MT-GLAZE	10K JA		C671 C683	403 199 970		470U M 2200U M	25V
R03	401 037 9507	MT-GLAZE	1.8M JA		C685	403 208 600		22000 M 22000 M	
R04	401 038 0503	MT-GLAZE		1/10W	C687	403 208 600		22000 M	
R05	401 037 5004	MT-GLAZE	0.000 ZA			111 200 000			•
R06	401 037 5004	MT-GLAZE	0.000 ZA	1/10W	RESISTOR	100 000 000		0 4 ***	6
R07	401 038 3504	MT-GLAZE	330 JA		R612	402 083 480		0.1JA	2W
R08	401 037 5202		100 JA		R614 R615	401 237 000 401 237 000		47K JA 47K JA	1W 1W
R09	401 037 7909	MT-GLAZE	1.5K JA		R616	401 237 000		47K JA 47K JA	1W
R11	401 038 6604		470K JA		R617	401 237 000		47K JA	1W
R12 R13	401 038 6505 401 148 2701		47K JA 1.1K FA		R618	401 038 550		4.7 JA	
R14	401 148 2701	MT-GLAZE	1.1K FA 1.2K FA		R620	401 242 390		240K JA	
		TIT OTHER	T.DK IA	-/	R621	401 242 390	1 MT-GLAZE	240K JA	1/2W
VARIABLE R					R622	401 259 900		150K FA	
VR01	645 041 5333	VR, SEMI, 1K	M		R623		2 MT-GLAZE	150K FA	
DIODE					R624	401 259 900		150K FA	
D01	407 004 1000	DIODE DCC0			R625	401 259 900		150K FA	
D02	407 004 1000	DIODE DCC0	10-TB		R626	401 702 OT	1 MT-GLAZE	100K JA	1W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R627	401 263 0101	MT-GLAZE 100K JA 1W		407 187 7806	ZENER DIODE UDZ6.8B-TE-17
R627	401 263 0101	MT-GLAZE 100K JA 1W	D660	407 179 4905	ZENER DIODE UDZ-TE-174.7B
R629	401 263 0101	MT-GLAZE 100K JA 1W	D661	407 149 0807	DIODE 1SS355-TE-17
R631	401 263 0101	MT-GLAZE 100K JA 1W	D665	407 149 0807	DIODE 1SS355-TE-17
R632	401 263 0101	MT-GLAZE 100K JA 1W			
△ R633	402 079 7803	FUSIBLE RES 22 JH 1/4W		=0110	
R634	401 238 4509	MT-GLAZE 47 JA 1/3W	MISCELLANI		CORR
R635	401 038 6307	MT-GLAZE 470 JA 1/10W	FB611	610 229 3531	CORE
R636	401 288 3903	MT-GLAZE 200 JA 1/3W	FB612 ▲ PC641	610 229 3531 408 039 3502	CORE PC TLP721F(D4-GB)
R637	401 037 5608	MT-GLAZE 10K JA 1/10W	△ PC641	408 039 3502	PC TLP721F (D4-GB) PC TLP721F (D4-GB)
R638	401 037 5202	MT-GLAZE 100 JA 1/10W	△ PC642	408 039 3502	PC TLP721F(D4-GB)
R641	401 037 5400	MT-GLAZE 1K JA 1/10W	△ PC644	408 039 3502	PC TLP721F(D4-GB)
R642	401 037 5707	MT-GLAZE 100K JA 1/10W	△ PTH611	408 037 5607	THERMISTOR NTH11D8ROLC
R643	401 037 8005	MT-GLAZE 15K JA 1/10W		200 001 0001	
R644	401 038 0909	MT-GLAZE 220K JA 1/10W			
R645	401 038 9308	MT-GLAZE 68K JA 1/10W	610 287 53	249 ASSV PWE	LINE FILTER MK6A
R646	401 038 9209	MT-GLAZE 6.8K JA 1/10W	1AA0B10C		Julie Heren Millor
R654 R655	401 038 2002 401 037 5400	MT-GLAZE 270 JA 1/10W MT-GLAZE 1K JA 1/10W	IAAODIOC	29200	
R656	401 037 5608	MT-GLAZE 10K JA 1/10W			
R657	401 037 3000	MT-GLAZE 6.8K JA 1/10W	CAPACITOR		
R658	401 030 5203	MT-GLAZE 10 JA 1/10W	△ C601	404 081 4702	MT-POLYEST 0.22U M 275V
R659	401 037 5400	MT-GLAZE 1K JA 1/10W	△ C602	404 081 4702	MT-POLYEST 0.22U M 275V
R660	401 039 0304	MT-GLAZE 820 JA 1/10W	△ C603	404 081 4702	MT-POLYEST 0.22U M 275V
R661	401 037 5608	MT-GLAZE 10K JA 1/10W	△ C604	404 081 4702	MT-POLYEST 0.22U M 275V
R662	401 038 7700	MT-GLAZE 5.6K JA 1/10W	△ C606	404 059 9203	CERAMIC 1000P M 400V
R663	401 038 9209	MT-GLAZE 6.8K JA 1/10W	RESISTOR		
R664	401 037 7909	MT-GLAZE 1.5K JA 1/10W	△ R601	401 008 8607	CARBON 220K JA 1/2W
R665	401 038 0701	MT-GLAZE 2.2K JA 1/10W		401 000 0007	CHILDON ZZOR OF 1/ZW
R666	401 037 9309	MT-GLAZE 18K JA 1/10W	COIL		
R667	401 038 0701	MT-GLAZE 2.2K JA 1/10W	△ L601	645 041 4961	LINE FILTER
R671	401 238 4400	MT-GLAZE 2.7K JA 1/3W	△ L602	645 041 4961	LINE FILTER
R672	401 238 4202	MT-GLAZE 1.5K JA 1/3W	MISCELLANI	EOUS	
R673	401 038 6406	MT-GLAZE 4.7K JA 1/10W	△ F601	423 022 2102	FUSE 250V 4A
R674	401 037 5608	MT-GLAZE 10K JA 1/10W	F601A	645 000 5077	HOLDER, FUSE
R681	401 038 0800	MT-GLAZE 22K JA 1/10W	F601B	645 000 5077	HOLDER, FUSE
R682	401 037 5707	MT-GLAZE 100K JA 1/10W	△ VA601	408 018 9808	VARISTOR ENC471D-14AS
TRANSFORM	/IER	•			
Δ TSW611	645 026 4511	SWITCH, THERMAL			
	645 043 3009	THERMOSTATS	610 287 52	256 ASSY,PWE	3,AUDIO AMP. MK6A
Δ T651	645 042 1921	TRANS, POWER, PULSE	1AA0B10C	2920C	
COIL					
`L61 1	645 039 9749	INDUCTOR, 1800U			
L611 L615	645 039 9749 610 031 9998	INDUCTOR, 1800U PIPE CORE	INTEGRATEI		
L611 L615 L671	645 039 9749 610 031 9998 645 007 8125		INTEGRATEI	D CIRCUIT 409 073 1509	IC AN5265
L615	610 031 9998	PIPE CORE	1	409 073 1509	IC AN5265
L615 L671	610 031 9998 645 007 8125	PIPE CORE INDUCTOR,47U K	IC001	409 073 1509	IC AN5265 ELECT 470U M 16V
L615 L671 L683	610 031 9998 645 007 8125 645 007 7975	PIPE CORE INDUCTOR,47U K INDUCTOR,100U K	IC001 CAPACITOR	409 073 1509	
L615 L671 L683 L685 L687	610 031 9998 645 007 8125 645 007 7975 645 007 7975	PIPE CORE INDUCTOR,47U K INDUCTOR,100U K INDUCTOR,100U K	CAPACITOR C001	409 073 1509 403 148 0305	ELECT 470U M 16V
L615 L671 L683 L685 L687	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K	CAPACITOR C001 C002	409 073 1509 403 148 0305 403 049 0008	ELECT 470U M 16V ELECT 1U M 50V
L615 L671 L683 L685 L687 DIODE DB611	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60	CAPACITOR C001 C002 C003	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 041 8804	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V
L615 L671 L683 L685 L687 DIODE DB611 D611	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06	TC001 CAPACITOR C001 C002 C003 C004	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 041 8804 403 044 9501	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V
L615 L671 L683 L685 L687 DIODE DB611 D611 D612	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S	TC001 CAPACITOR C001 C002 C003 C004 C005	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17	TC001 CAPACITOR C001 C002 C003 C004 C005 C006	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 041 8804 403 044 9501	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17	CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR	409 073 1509 403 148 0305 403 049 0008 403 049 0008 403 041 8804 403 044 9501 403 070 2606 403 044 9501	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A	CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 1U M 16V ELECT 10U M 16V ELECT 100U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AR06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 9309	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 1U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 9309 401 037 7909	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608 407 190 4106	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AR06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003 R004	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 7909 401 038 2200	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W MT-GLAZE 27K JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608 407 190 4106 407 149 0807	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AR06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V DIODE SFPL-52V DIODE 1SS355-TE-17	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003 R004 R005	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 7909 401 038 2200 401 110 8601	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W MT-GLAZE 27K JA 1/10W MT-GLAZE 1 JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608 407 190 4106 407 149 0807 407 206 6308	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V DIODE 1SS355-TE-17 ZD UDZS-TE-175.1B	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003 R004 R005 R006	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 7909 401 038 2200 401 110 8601 401 037 5400	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W MT-GLAZE 27K JA 1/10W MT-GLAZE 1 JA 1/10W MT-GLAZE 1 JA 1/10W MT-GLAZE 1 JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634 D635 D641 D642	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 194 6800 407 124 6800 407 125 5307 407 140 0608 407 190 4106 407 149 0807 407 206 6308 407 179 1706	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V DIODE 1SS355-TE-17 ZD UDZS-TE-175.1B ZENER DIODE UDZ5.1B-TE-17	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003 R004 R005	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 7909 401 038 2200 401 110 8601 401 037 5400 401 069 0305	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W MT-GLAZE 27K JA 1/10W MT-GLAZE 1 JA 1/10W
L615 L671 L683 L685 L687 DIODE DB611 D611 D612 D631 D632 D633 D634 D635 D641 D642 D651	610 031 9998 645 007 8125 645 007 7975 645 007 7975 645 007 7975 407 202 7705 407 174 2302 407 191 3900 407 187 8209 407 190 4106 407 124 6800 407 125 5307 407 140 0608 407 190 4106 407 149 0807 407 206 6308 407 179 1706 407 202 9808	PIPE CORE INDUCTOR, 47U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K INDUCTOR, 100U K DIODE D10XB60 DIODE AK06 DIODE FML-G16S ZENER DIODE UDZ12B-TE-17 DIODE SFPL-52V DIODE AG01A ZENER DIODE RD27M-T1BB ZENER DIODE 02CZ27-TE85L DIODE SFPL-52V DIODE 1SS355-TE-17 ZD UDZS-TE-175.1B ZENER DIODE UDZ5.1B-TE-17 DIODE FMB-26L	TC001 CAPACITOR C001 C002 C003 C004 C005 C006 C007 C008 RESISTOR R001 R002 R003 R004 R005 R006	409 073 1509 403 148 0305 403 049 0008 403 041 8804 403 041 8804 403 044 9501 403 070 2606 403 044 9501 401 037 5004 401 037 7909 401 038 2200 401 110 8601 401 037 5400	ELECT 470U M 16V ELECT 1U M 50V ELECT 1U M 50V ELECT 10U M 16V ELECT 10U M 16V ELECT 10U M 25V CERAMIC 0.1U Z 50V ELECT 100U M 25V MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 18K JA 1/10W MT-GLAZE 1.5K JA 1/10W MT-GLAZE 27K JA 1/10W MT-GLAZE 1 JA 1/10W

LIECTICAL LA					
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R012	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		405 015 8704	TR 2SC2812-L6-TB
DIODE				405 015 8902	TR 2SC2812-L7-TB
D001	407 206 5509	ZD UDZS-TE-179.1B	Q5003	405 014 4509	TR 2SC2412K T146 R
. DOOT	407 187 7905	ZENER DIODE UDZ9.1B-TE-17	•	405 014 4608	TR 2SC2412K T146 S
D002	407 206 6308	ZD UDZS-TE-175.1B		405 015 8704	TR 2SC2812-L6-TB
	407 179 1706	ZENER DIODE UDZ5.1B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D003	407 149 0807	DIODE 1SS355-TE-17	Q5004	405 014 4509	TR 2SC2412K T146 R
				405 014 4608	TR 2SC2412K T146 S
				405 015 8704 405 015 8902	TR 2SC2812-L6-TB TR 2SC2812-L7-TB
610 290 0	026 ASSY,PWE	B.MAIN M4GA	Q5006	405 013 8902	TR 2SC2412K T146 R
1AA0B10C			23000	405 014 4608	TR 2SC2412K T146 S
IAAODIOO	LJOUR			405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB
TRANSISTO	R .		Q5007	405 014 4509	TR 2SC2412K T146 R
Q1801	405 014 4509	TR 2SC2412K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 014 4608	TR 2SC2412K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 015 8902	TR 2SC2812-L7-TB	Q5008	405 014 4509	TR 2SC2412K T146 R
Q1821	405 045 8705	TR 2SK536-TB		405 014 4608	TR 2SC2412K T146 S
Q1822	405 045 8705	TR 2SK536-TB		405 015 8704	TR 2SC2812-L6-TB
Q1881	405 045 8705	TR 2SK536-TB		405 015 8902	TR 2SC2812-L7-TB
Q2501	405 014 4509	TR 2SC2412K T146 R	Q5041	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 015 8902	TR 2SC2812-L7-TB
Q2851	405 014 4509	TR 2SC2412K T146 R	Q5042	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 015 8902	TR 2SC2812-L7-TB
Q2852	405 014 4509	TR 2SC2412K T146 R	Q5201	405 134 5905	TR 2SA1037AK-T146-R
	405 014 4608	TR 2SC2412K T146 S TR 2SC2812-L6-TB		405 147 2205	TR 2SA1037AK-S-T146
	405 015 8704 405 015 8902	TR 2SC2812-L0-TB		405 002 0308	TR 2SA1037K T146 R
Q2853	405 013 8902	TR 2SC2412K T146 R		405 002 0407	TR 2SA1037K T146 S
Q2055	405 014 4608	TR 2SC2412K T146 K		405 002 6706	TR 2SA1179-M6-TB
	405 015 8704	TR 2SC2812-L6-TB	05000	405 002 6904	TR 2SA1179-M7-TB
•	405 015 8902	TR 2SC2812-L7-TB	Q5202	405 134 5905 405 147 2205	TR 2SA1037AK-T146-R TR 2SA1037AK-S-T146
Q2854	405 134 5905	TR 2SA1037AK-T146-R		405 147 2205	TR 2SA1037AK-S-T146 TR 2SA1037K T146 R
2-00-	405 147 2205	TR 2SA1037AK-S-T146		405 002 0407	TR 2SA1037K T146 S
	405 002 0308	TR 2SA1037K T146 R		405 002 6706	TR 2SA1037K 1140 S
	405 002 0407	TR 2SA1037K T146 S		405 002 6904	TR 2SA1179-M7-TB
	405 002 6706	TR 2SA1179-M6-TB	Q5203	405 134 5905	TR 2SA1037AK-T146-R
	405 002 6904	TR 2SA1179-M7-TB	23203	405 147 2205	TR 2SA1037AK-S-T146 -
Q303	405 014 4509	TR 2SC2412K T146 R		405 002 0308	TR 2SA1037K T146 R
	405 014 4608	TR 2SC2412K T146 S		405 002 0407	TR 2SA1037K T146 S
	405 015 8704	TR 2SC2812-L6-TB		405 002 6706	TR 2SA1179-M6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 002 6904	TR 2SA1179-M7-TB
Q3501	405 002 8304	TR 2SA1203-Y-TE12L	Q5204	405 134 5905	TR 2SA1037AK-T146-R
Q3502	405 014 4509	TR 2SC2412K T146 R	~ .	405 147 2205	TR 2SA1037AK-S-T146
	405 014 4608	TR 2SC2412K T146 S		405 002 0308	TR 2SA1037K T146 R
1	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1037K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 002 6706	TR 2SA1179-M6-TB
Q371	405 014 4509	TR 2SC2412K T146 R		405 002 6904	TR 2SA1179-M7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5211	405 014 4509	TR 2SC2412K T146 R
* .	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q451	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5251	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q5001	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5252	405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
05000	405 015 8902	TR 2SC2812-L7-TB		405 015 8704	TR 2SC2812-L6-TB
Q5002	405 014 4509	TR 2SC2412K T146 R		405 015 8902	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K T146 S	Q5253	405 014 4509	TR 2SC2412K T146 R
			la		

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
nei. No.	<u> </u>				
	405 014 4608 405 015 8704	TR 2SC2412K T146 S TR 2SC2812-L6-TB	IC3371 IC3381	410 315 5308 410 315 5308	IC MC74ACT244DT IC MC74ACT244DT
	405 015 8704	TR 2SC2812-L7-TB	IC3391	410 315 5308	IC MC74ACT244DT
Q5296	405 134 5905	TR 2SA1037AK-T146-R	IC3392	409 330 2508	IC TC7SH04FU-(TE85L)
~	405 147 2205	TR 2SA1037AK-S-T146	* -	410 356 7606	IC SN74AHC1G04HDCKR
	405 002 0308	TR 2SA1037K T146 R	IC3501	409 472 6303	IC ET1030F0A
	405 002 0407	TR 2SA1037K T146 S	IC351	410 337 0503	IC TC74LCX14FT
	405 002 6706 405 002 6904	TR 2SA1179-M6-TB TR 2SA1179-M7-TB	702521	410 337 0602 409 472 6303	IC HD74LVC14T IC ET1030F0A
Q6601	405 002 6904	TR 2SC2412K T146 R	IC3531 IC3532	409 390 0001	IC LM7171AIMX
20001	405 014 4608	TR 2SC2412K T146 S	103302	409 486 7709	IC LM7171BIMX
	405 015 8704	TR 2SC2812-L6-TB	IC3561	409 472 6303	IC ET1030F0A
	405 015 8902	TR 2SC2812-L7-TB	IC3581	409 343 0201	IC LT1206CS8
Q6602	405 014 4509	TR 2SC2412K T146 R	IC3801	410 275 5707	IC TWM7000-162020
	405 014 4608	TR 2SC2412K T146 S	** 02041	410 275 5806	IC TWM7000-162020
	405 015 8704 405 015 8902	TR 2SC2812-L6-TB TR 2SC2812-L7-TB	IC3841 IC3861	410 296 5700 410 296 2402	IC TWM7000-151020 IC TMP47C101M-JV45
Q6612	405 014 4509	TR 2SC2412K T146 R	IC3862	409 344 1900	IC MN1382-O-TX
20022	405 014 4608	TR 2SC2412K T146 S	IC3871	409 380 6303	IC HIN232CB
]	405 015 8704	TR 2SC2812-L6-TB		409 273 3501	IC SP232ACT
	405 015 8902	TR 2SC2812-L7-TB	IC401	409 419 2603	IC CXA2111R
Q7281	405 014 4509	TR 2SC2412K T146 R	IC411	409 330 2508	IC TC7SH04FU-(TE85L)
	405 014 4608	TR 2SC2412K T146 S	TO431	410 356 7606 409 326 3007	IC SN74AHC1G04HDCKR IC M62358FP
	405 015 8704 405 015 8902	TR 2SC2812-L6-TB TR 2SC2812-L7-TB	IC431 IC451	409 328 3007	IC L88MS05TL-TL
Q851	405 045 8705	TR 2SK536-TB	IC471	409 460 8302	IC CXD3503R
			IC472	409 398 1901	IC L88MS05TL-TL
INTEGRATED	409 419 3709	IC MC10H351ML1	IC5001	409 051 2900	IC TC4053BF(EL)
IC1801	409 330 2508	IC TC7SH04FU-(TE85L)	IC501	409 476 8808	IC CXA3512R
	410 356 7606	IC SN74AHC1G04HDCKR	IC5101	409 478 2507	IC SAA7114H
IC1802	410 381 4403	IC TC7W32FU(TE12L)	IC5201 IC5251	409 407 7900 409 461 7304	IC EL4332CS IC AD8057ART
IC1803	410 346 8804	IC TC74LCX574FT	IC5251	409 461 7304	IC AD8057ART
IC1804	410 346 8804	IC TC74LCX574FT	IC5253	409 461 7304	IC AD8057ART
IC1806	410 346 8804 410 346 8804	IC TC74LCX574FT IC TC74LCX574FT	IC5281	409 407 7900	IC EL4332CS
IC1807 IC1808	410 346 6604	IC TC74LCX541FT	IC5282	409 400 7105	IC TC7W53FU-(TE12L)
IC1809	410 362 6501	IC TC74LCX541FT	IC531	409 476 8808	IC CXA3512R
IC1831	409 481 8602	IC LM76CHMX-5	IC561 IC6101	409 476 8808 410 386 9205	IC CXA3512R IC LC24193AT-TH5
IC1851	409 486 6108	IC M51206FP	IC6101	409 344 1900	IC MN1382-Q-TX
IC1951	409 461 8202	IC ER-ICS502MT	· IC6601	409 481 8503	IC AD8400AR1
IC1961	409 428 7101 409 487 5704	IC AV9155C IC TC7SZ125FU	IC6901	410 386 4804	IC EPM3128ATC100-10
IC1991 IC202	410 388 7001	IC AD9884AKS-100	IC7221	410 337 0503	IC TC74LCX14FT
IC2200	410 308 6404	IC MB40988PFO-G-MSBND		410 337 0602	· ·
IC2211	409 461 7304	IC AD8057ART	IC7241 IC7251	409 461 7304	IC AD8057ART IC AD8057ART
IC2221	409 461 7304	IC AD8057ART	IC7251		IC AD8057ART
IC2231	409 461 7304	A CONTRACTOR OF THE CONTRACTOR	IC801		IC MBM29LV800TA90NB706
IC231	409 416 6406	IC BA033FP-E2	IC806A	410 354 3808	IC MBM29LV800TA-90PFTN
IC2601 IC2612	409 416 6406 409 461 7700	IC BA033FP-E2 IC PQ2TZ15	IC811		IC IDT71V016S15PHTR
IC2621	409 416 6406	IC BA033FP-E2	IC851		IC MC74HCT244ADT
IC2622	409 416 6406	IC BA033FP-E2	· ·	410 315 5506 410 356 7507	
IC2631	409 124 5708	IC L78M09T-TR	IC861	410 356 7507	
IC2642	409 398 1901	IC L88MS05TL-TL			TO TO! THOSE ATELY
IC2643	409 398 1901	IC L88MS05TL-TL	CAPACITOR		CTPANTO CATA
IC2881	410 378 7103	IC PIC12C508A-04/SM A	C1501	403 164 0204	
IC2882 IC301	410 343 7008 409 478 2408	IC SN74AHCT1G14DBVR IC PW164-10RK	C1502 C1504	403 322 7809 403 322 7809	
IC301	409 478 2408	IC 24LC16BT/SN-T	C1304 C1801	403 162 4709	
IC311	409 480 1307	IC PST573IM	C1802	403 164 0204	
IC312	409 350 2908	IC TC7W126FU-(TE12L)	C1831	403 164 0204	
IC321	409 400 7105	IC TC7W53FU-(TE12L)	C1851	403 283 6309	
IC3301	409 478 1302	IC LC24049A-TA7	C1852	403 283 6309	
IC3302	409 416 6406	IC BA033FP-E2	C1853 C1951	403 283 6309 403 164 0204	
IC3321 IC3331	410 325 4605 410 315 5308	IC TC74LCX244FT IC MC74ACT244DT	C1951 C1961	403 164 0204	
103331	110 313 3300		01501	_00 TOT 000Z	

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Ref. No.	Part No.	Description		:	Ref. No.	Part No.	Description	n	
C1962	403 322 7809	ELECT 220	U M	6.3V	C2635	403 229 350	8 ELECT	100U M	16V
C1963	403 164 0204	CERAMIC 0.1	υz	25V	C2636	403 229 350	8 ELECT	100U M	16V
C1964	403 155 4204		РJ	50V	C2637	403 283 630		1U Z	10V
C1965	403 164 0204	CERAMIC 0.1		25V	.C2638	403 322 780		220U M	6.3V
C1966	403 164 0204	CERAMIC 0.1		25V	C2639	403 164 020		0.1U Z	25V
C1971	403 229 3508	ELECT 100		16V	C2654	403 322 780		220U M	6.3V
C1972	403 229 3508	ELECT 100		16V	C2656	403 164 020		0.1U Z	25V
C1973	403 322 7809			6.3V 25V	C2657 C2658	403 229 350 403 229 350		100U M 100U M	16V 16V
C1991 C2201	403 164 0204 403 164 0204	CERAMIC 0.1 CERAMIC 0.1		25V 25V	C2659	403 283 630		1000 M	10V
C2201	403 208 1402		UM	25V	C2851	403 164 020		0.1U Z	25V
C2202	403 164 0204	CERAMIC 0.1		25V	C2852	403 164 020		0.1U Z	25V
C2204	403 164 0204	CERAMIC 0.1		25V	C2881	403 139 710		12P J	50V
C2206	403 322 7809			6.3V	C2882	403 139 710		12P J	50V
C2207	403 164 0204			25V	C2891	403 205 280	8 CERAMIC	0.047U K	25V
C2211	403 233 3808	CERAMIC 10	PC	50V	C2892	403 164 020	4 CERAMIC	0.1U Z	25V
C2212	403 164 0204	CERAMIC 0.1	υZ	25V	C301	403 162 470	9 ELECT	10U M	16V
C2221	403 233 3808	CERAMIC 10	PC	50V	C302	403 164 020	4 CERAMIC	0.1U Z	25V
C2222	403 164 0204		υz	25V	C303	403 149 920		0.01U Z	50V
C2231	403 233 3808		PC	50V	C308	403 149 920		0.01U Z	50V
C2232	403 164 0204		UZ	25V	C309	403 164 020		0.1U Z	25V
C231	403 164 0204		υz	25V	C311	403 322 780		220U M	6.3V
C232	403 175 4109		UM	16V	C312	403 164 020		0.1U Z	25V
C233	403 164 0204		UZ	25V	C313	403 322 780		220U M 0.1U Z	6.3V 25V
C234	403 162 4709 403 164 0204	ELECT 10 CERAMIC 0.1	U M	16V 25V	C314 C315	403 164 020		0.10 Z	25V 25V
C235 C236	403 298 9609		UK	16V	C316	403 283 630		1U Z	10V
C230	403 325 3303		UK	16V	C3301	403 322 780		220U M	6.3V
C238	403 164 0204	CERAMIC 0.1		25V	C3302	403 322 780		220U M	6.3V
C239	403 162 4006			6.3V	C3303	403 164 020		0.1U Z	25V
C241	403 215 2201	CERAMIC 0.01		50V	C3305	403 164 020		0.1U Z	25V
C242	403 298 9609	CERAMIC 0.1	UK	16V	C3306	403 322 780	9 ELECT	220U M	6.3V
	403 325 3303	CERAMIC 0.1	UK	16V	C3307	403 164 020	4 CERAMIC	0.1U Z	25V
C243	403 298 9609	CERAMIC 0.1	UK	16V	C3331	403 164 020	4 CERAMIC	0.1U Z	25V
	403 325 3303	CERAMIC 0.1	UK	16V	C3371	403 164 020		0.1U Z	25V
C251	403 157 3809		РJ	50V	C3381	403 164 020		0.1U Z	25V
C252	403 164 0204		UZ	25V	C3391	403 164 020		0.1U Z	25V
C253	403 164 0204		υz	25V	C3501	403 162 470		10U M	16V
C254	403 164 0204		UZ UM	25V 25V	C3502 C3503	403 322 780		220U M 0.1U Z	6.3V 25V
C2561 C2562	403 341 8801 403 164 0204		UZ	25V 25V	C3504	403 164 020		0.1U Z	25V
C2571	403 341 8801		UM	25V	C3504	403 229 350		100U M	16V
C2572	403 164 0204		UZ	25V	C3507	403 164 020		0.1U Z	25V
C2581	403 341 8801		UM	25V	C351	403 164 020		0.1U Z	25V
C2582	403 164 0204		UZ	25V	C3532	403 322 780		220U M	6.3V
C2601	403 164 0204		υz	25V	C3533	403 164 020		0.1U Z	25V
C2602	403 322 7809	ELECT 220	U M	6.3V	C3534	403 164 026	4 CERAMIC	0.1U Z	25V
C2603	403 164 0204	CERAMIC 0.1	UΖ	25V	C3536	403 229 350		100U M	16V
C2606	403 229 3508		U M	16V	C3537	403 164 020		0.1U Z	25V
C2611	403 164 0204		UZ	25V	C3541	403 157 360		100P J	50V
C2612	403 164 0204		UZ	, 25V	C3561	403 164 020		0.1U Z	25V
C2613	403 164 0204		UZ	25V	C3562	403 322 780		220U M	6.3V
C2614	403 322 7809			6.3V	C3563	403 164 020		0.1U Z	25V
C2615	403 164 0204 403 229 3508		UZ	25V 16V	C3564 C3566	403 164 020		0.1U Z 100U M	25 V 16V
C2616 C2618	403 229 3508		U M U M	16V 16V	C3566 C3567	403 229 350		0.1U Z	25V
C2621	403 229 3308		UZ	25V	C3568	403 164 020		0.1U Z	25V
C2622	403 322 7809			6.3V	C3581	403 157 360		100P J	50V
C2623	403 164 0204		UZ	25V	C3582	403 164 020		0.1U Z	25V
C2626	403 229 3508		UM	16V	C3583	403 229 350		100U M	16V
C2627	403 164 0204		υz	25V	C3584	403 149 920		0.01U Z	50V
C2628	403 322 7809			6.3V	C3802	403 283 630	9 CERAMIC	1U Z	10V
C2629	403 164 0204	CERAMIC 0.1	UZ	25V	C3841	403 283 630	9 CERAMIC	1U Z	10V
C2630	403 229 3508		U M	16V	C3842	403 283 630		1U Z	10V
C2631	403 164 0204		UZ	25V	C3844	403 283 630		1U Z	10V
C2632	403 229 3508		UM	16V	C3861	403 283 630		1U Z	10V
C2633	403 164 0204	CERAMIC 0.1	UZ	25V	C3864	403 162 620	8 ELECT	1U M	50V

Ref. No.	Part No.	Description	1		Ref. No.	Part No.	Description
C3867	403 283 6309	CERAMIC	1U Z	10V	C5101	403 139 7306	CERAMIC 18P J 50V
C3871	403 283 6309	CERAMIC	1U Z	10V	C5102	403 139 7306	CERAMIC 18P J 50V
C3881	403 162 6208	ELECT	1U M	50V	C5104	403 205 2808	CERAMIC 0.047U K 25V
C3882	403 162 6208	ELECT	1U M	50V	C5106	403 205 2808	CERAMIC 0.047U K 25V
C3883	403 162 6208	ELECT	1U M	50V	C5107	403 205 2808	CERAMIC 0.047U K 25V
C3884	403 162 6208	ELECT	1U M	50V	C5108	403 205 2808	CERAMIC 0.047U K 25V
C401	403 164 0204	CERAMIC	0.1U Z	25V	C5109	403 205 2808	CERAMIC 0.047U K 25V
C402	403 149 9208	CERAMIC	0.01U Z	50V	C511	403 113 3805	CERAMIC 1000P K 50V
C403	403 149 9208	CERAMIC	0.01U Z	50V	C5111	403 229 3508	ELECT 100U M 16V
C404	403 149 9208	CERAMIC	0.01U Z	50V	C5112	403 164 0204	CERAMIC 0.1U Z 25V
C405	403 322 7809	ELECT	220U M	6.3V	C5113	403 229 3508	ELECT 100U M 16V
C406	403 164 0204	CERAMIC	0.1U Z	25V	C5114	403 164 0204	CERAMIC 0.1U Z 25V
C407	403 322 7809	ELECT	220U M	6.3V	C5116	403 164 0204	CERAMIC 0.1U Z 25V
C408	403 164 0204	CERAMIC	0.1U Z	25V	C5117	403 164 0204	CERAMIC 0.1U Z 25V
C409	403 164 0204	CERAMIC	0.1U Z	25V	C5118	403 164 0204	CERAMIC 0.1U Z 25V
C411	403 149 9208	CERAMIC	0.01U Z	50V	C5119	403 164 0204	CERAMIC 0.1U Z 25V
C412	403 149 9208	CERAMIC	0.01U Z	50V	C514	403 164 0204	CERAMIC 0.1U Z 25V
C413	403 149 9208	CERAMIC	0.01U Z	50V	C516	403 229 3508	ELECT 100U M 16V
C414	403 149 9208	CERAMIC	0.01U Z	50V	C517	403 164 0204	CERAMIC 0.1U Z 25V
C415 C416	403 149 9208 403 149 9208	CERAMIC CERAMIC	0.01U Z	50V 50V	C519 C5201	403 164 0204 403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V
C416 C417	403 149 9208	CERAMIC	0.01U Z 0.1U Z	50V 25V	C5201 C5202	403 164 0204	CERAMIC 0.1U Z 25V ELECT 220U M 6.3V
C431	403 184 0204	ELECT	100U M	25V 16V	C5202	403 229 3508	ELECT 2200 M 6.3V
C432	403 229 3308	CERAMIC	0.01U Z	50V	C5212	403 283 6309	CERAMIC 1U Z 10V
C433	403 164 0204	CERAMIC	0.010 Z	25V	C5212	403 149 9208	CERAMIC 0.01U Z 50V
C434	403 175 4505	ELECT	47U M	6.3V	C5214	403 283 6309	CERAMIC 0.010 Z 30V
C435	403 298 9609	CERAMIC	0.1U K	16V	C5216	403 149 9208	CERAMIC 0.01U Z 50V
0100	403 325 3303	CERAMIC	0.1U K	16V	C5217	403 283 6309	CERAMIC 1U Z 10V
C436	403 298 9609	CERAMIC	0.1U K	16V	C5218	403 162 4006	ELECT 22U M 6.3V
	403 325 3303	CERAMIC	0.1U K	16V	C5251	403 164 0204	CERAMIC 0.1U Z 25V
C437	403 298 9609	CERAMIC	0.1U K	16V	C5252	403 322 7809	ELECT 220U M 6.3V
	403 325 3303	CERAMIC	0.1U K	16V	C5253	403 157 1904	CERAMIC 10P D 50V
C450	403 229 3508	ELECT	100U M	16V	C5255	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C451	403 229 3508	ELECT	100U M	16V	C5257	403 322 7809	ELECT 220U M 6.3V
C452	403 322 7809	ELECT	220U M	6.3V	C5258	403 164 0204	CERAMIC 0.1U Z 25V
C453	403 283 6309	CERAMIC	1U Z	10V	C5259	403 215 2904	CERAMIC 0.022U K 25V
C454	403 164 0204	CERAMIC	0.1U Z	25V	C5263	403 157 1904	CERAMIC 10P D 50V
C470	403 322 7809	ELECT	220U M	6.3V	C5265	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C471	403 322 7809	ELECT	220U M	6.3V	C5269	403 215 2904	CERAMIC 0.022U K 25V
C472	403 164 0204	CERAMIC	0.1U Z	25V	C5273	403 157 1904	CERAMIC 10P D 50V
C473	403 162 4709	ELECT	10U M	16V	C5275	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C474	403 164 0204	CERAMIC	0.1U Z	25V	C5279	403 215 2904	CERAMIC 0.022U K 25V
C475	403 283 6309	CERAMIC	1U Z	10V	C5281	403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.01U Z 50V
C476	403 341 3905 403 157 2901	POS-SOLID	100U M		C5282	403 149 9208 403 164 0204	
C481 C483	403 157 2901	CERAMIC CERAMIC	47P J 0.1U Z	50V 25V	C5283 C5284	403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V
C484	403 164 0204	CERAMIC	0.1U Z	25V	C5287	403 157 4202	CERAMIC 220P J 50V
C5001	403 205 7803	TA-SOLID	2.2U M	16V	C5288	403 162 4006	ELECT 22U M 6.3V
C5002	403 205 7803	TA-SOLID	2.2U M	16V	C5289	403 322 7809	ELECT 220U M 6.3V
C5003	403 205 7803	TA-SOLID	2.2U M	16V	C531	403 164 0204	CERAMIC 0.1U Z 25V
	403 205 7803	TA-SOLID	2.2U M	16V	C532	403 162 4709	ELECT 10U M 16V
C5006.	403 205 7803	TA-SOLID	2.2U M	16V	C533	403 164 0204	CERAMIC 0.1U Z 25V
C5007	403 343 8809	CERAMIC	0.47U Z	16V	C534	403 164 0204	CERAMIC 0.1U Z 25V
C5008	403 343 8809	CERAMIC	0.47U Z	16V	C536	403 157 3106	CERAMIC 56P J 50V
C5009	403 162 4709	ELECT	10U M	16V	C537	403 155 1609	CERAMIC 33P J 50V
C501	403 164 0204	CERAMIC	0.1U Z	25V	C539	403 215 0900	CERAMIC 390P J 50V
C5010	403 322 7809	ELECT	220U M	6.3V	C541	403 113 3805	CERAMIC 1000P K 50V
C5011	403 343 8809	CERAMIC	0.47U Z	16V	C544	403 164 0204	CERAMIC 0.1U Z 25V
C5012	403 162 4709	ELECT	10U M	16V	C546	403 229 3508	ELECT 100U M 16V
C5013	403 162 4709	ELECT	10U M	16V	C547	403 164 0204	CERAMIC 0.1U Z 25V
C5014	403 322 7809	ELECT	220U M	6.3V	C549	403 164 0204	CERAMIC 0.1U Z 25V
C502	403 162 4709	ELECT	10U M	16V	C551	403 229 3508	ELECT 100U M 16V
C503	403 164 0204	CERAMIC	0.1U Z	25V	C561	403 164 0204	CERAMIC 0.1U Z 25V
C504	403 164 0204	CERAMIC	0.1U Z	25V	C562	403 162 4709	ELECT 10U M 16V
C506	403 157 3106	CERAMIC	56P J	50V	C563	403 164 0204	CERAMIC 0.1U Z 25V
C507	403 155 1609	CERAMIC	33P J	50V	C564	403 164 0204	CERAMIC 0.1U Z 25V
C509	403 215 0900	CERAMIC	390P J	50V	C566	403 157 3106	CERAMIC 56P J 50V

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C567	403 155 1609	CERAMIC 33P J 50V		645 024 7477	R-NETWORK 0X4 1/16W
C569	403 215 0900	CERAMIC 390P J 50V	RB561	645 037 0656	R-NETWORK 0X4 0.063W
C571	403 113 3805	CERAMIC 1000P K 50V		645 024 7477	R-NETWORK 0X4 1/16W
C574	403 164 0204	CERAMIC 0.1U Z 25V	RB562	645 037 0656	R-NETWORK 0X4 0.063W
C576 .	403 229 3508	ELECT 100U M 16V		645 024 7477	R-NETWORK 0X4 1/16W
C577	403 164 0204	CERAMIC 0.1U Z 25V	RB6101	645 021 0358	R-NETWORK 100X4 0.063W
C579	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C581	403 229 3508	ELECT 100U M 16V	RB6102	645 021 0358	R-NETWORK 100X4 0.063W
C6101	403 283 6309	CERAMIC 1U Z 10V		645 031 3325	R-NETWORK 100X4 1/16W
C6102	403 164 0204	CERAMIC 0.1U Z 25V	RB6103	645 021 0358	R-NETWORK 100X4 0.063W
C6103	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6104	403 164 0204	CERAMIC 0.1U Z 25V	RB6104	645 021 0358	R-NETWORK 100X4 0.063W
C6105	403 229 3508	ELECT 100U M 16V	BB6106	645 031 3325	R-NETWORK 100X4 1/16W
C6106	403 164 0204	CERAMIC 0.1U Z 25V	RB6106	645 021 0358 645 031 3325	R-NETWORK 100X4 0.063W R-NETWORK 100X4 1/16W
C6112	403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V	RB6107	645 031 3323	R-NETWORK 100X4 1/16W
C6113 C6114	403 164 0204 403 164 0204	CERAMIC 0.10 Z 25V	KD0107	645 031 3325	R-NETWORK 100X4 0.003W
C6114 C6116	403 164 0204	CERAMIC 0.10 Z 25V	RB6108	645 021 0358	R-NETWORK 100X4 1,16W
C6601	403 164 0204	CERAMIC 0.10 Z 25V	KBOIOO	645 031 3325	R-NETWORK 100X4 0.005W
C6611	403 229 3508	ELECT 100U M 16V	RB6109	645 021 0358	R-NETWORK 100X4 0.063W
C6612	403 229 3508	ELECT 100U M 16V		645 031 3325	R-NETWORK 100X4 1/16W
C6613	403 229 3508	ELECT 100U M 16V	RB6111	645 021 0358	R-NETWORK 100X4 0.063W
C6901	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6902	403 164 0204	CERAMIC 0.1U Z 25V	RB6112	645 021 0358	R-NETWORK 100X4 0.063W
C6903	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6904	403 164 0204	CERAMIC 0.1U Z 25V	RB6113	645 021 0358	R-NETWORK 100X4 0.063W
C6906	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6907	403 164 0204	CERAMIC 0.1U Z 25V	RB6114	645 021 0358	R-NETWORK 100X4 0.063W
C6908	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C6911	403 229 3508	ELECT 100U M 16V	RB6116	645 021 0358	R-NETWORK 100X4 0.063W
C6912	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C7221	403 157 3809	CERAMIC 120P J 50V	RB6117	645 021 0358	R-NETWORK 100X4 0.063W
C7222	403 149 9208	CERAMIC 0.01U Z 50V		645 031 3325	R-NETWORK 100X4 1/16W
C7225	403 157 3809	CERAMIC 120P J 50V	RB6118	645 021 0358	R-NETWORK 100X4 0.063W
C7226	403 157 3809	CERAMIC 120P J 50V CERAMIC 10P D 50V	RB6119	645 031 3325 645 021 0358	R-NETWORK 100X4 1/16W R-NETWORK 100X4 0.063W
C7241	403 157 1904 403 283 6309	CERAMIC 10P D 50V CERAMIC 1U Z 10V	KBOILY	645 031 3325	R-NETWORK 100X4 0.063W
C7242TM C7251	403 283 6309	CERAMIC 10 2 10V	RB6121	645 031 3323	R-NETWORK 100X4 1,16W
C7251	403 157 1904	CERAMIC 10P D 50V	1,00121	645 031 3325	R-NETWORK 100X4 1/16W
C7271	403 164 0204	CERAMIC 0.1U Z 25V	RB6122	645 021 0358	R-NETWORK 100X4 0.063W
C7272	403 322 7809	ELECT 220U M 6.3V		645 031 3325	R-NETWORK 100X4 1/16W
C7273	403 322 7809	ELECT 220U M 6.3V	RB6123	645 021 0358	R-NETWORK 100X4 0.063W
C7274	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C7281	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	RB6124	645 021 0358	R-NETWORK 100X4 0.063W
C806	403 322 7809	ELECT 220U M 6.3V		645 031 3325	R-NETWORK 100X4 1/16W
C807	403 164 0204	CERAMIC 0.1U Z 25V	RB6126	645 021 0358	R-NETWORK 100X4 0.063W
C811	403 175 3300	ELECT 47U M 16V		645 031 3325	R-NETWORK 100X4 1/16W
C812	403 164 0204	CERAMIC 0.1U Z 25V	RB6127	645 021 0358	R-NETWORK 100X4 0.063W
C851	403 164 0204	CERAMIC 0.1U Z 25V		645 031 3325	R-NETWORK 100X4 1/16W
C861	403 164 0204	CERAMIC 0.1U Z 25V	RB6128		R-NETWORK 100X4 0.063W
RESISTOR					R-NETWORK 100X4 1/16W
RB1801	645 020 7822	R-NETWORK 10KX4 0.063W	RB6129		R-NETWORK 100X4 0.063W
KBIOOI	645 025 5380	R-NETWORK 10KX4 1/16W		645 031 3325	
RB1802	645 020 7822	R-NETWORK 10KX4 0.063W	RB851		R-NETWORK 10KX4 0.063W
10200	645 025 5380	R-NETWORK 10KX4 1/16W			R-NETWORK 10KX4 1/16W
RB3841	645 020 7822		RB852		R-NETWORK 10KX4 0.063W
	645 025 5380	R-NETWORK 10KX4 1/16W	maror	645 025 5380	
RB3861	645 020 7822	R-NETWORK 10KX4 0.063W	R1506	401 105 7909	
	645 025 5380	R-NETWORK 10KX4 1/16W	R1507	401 105 7909	
RB501	645 037 0656	R-NETWORK 0X4 0.063W	R1508	401 105 7909 401 105 7909	
	645 024 7477	R-NETWORK 0X4 1/16W	R1509 R1511	401 105 7909	
RB502	645 037 0656	R-NETWORK 0X4 0.063W	R1511	401 105 4007	
	645 024 7477	R-NETWORK 0X4 1/16W	R1512	401 105 4007	
RB531	645 037 0656	R-NETWORK 0X4 0.063W	R1514	401 105 4007	
	645 024 7477	R-NETWORK 0X4 1/16W	R1514	401 105 7909	
RB532	645 037 0656	R-NETWORK 0X4 0.063W	R1517	401 105 7909	

Electrical Par	ctrical Parts List				
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1518	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2238	401 113 4402	MT-GLAZE 75 JA 1/16W
R1522	401 105 4007	MT-GLAZE 330 JA 1/16W	R241	401 105 0405	MT-GLAZE 100 JA 1/16W
R1523	401 105 4007 401 105 2805	MT-GLAZE 330 JA 1/16W MT-GLAZE 2.2K JA 1/16W	R242 R244	401 105 0405 401 105 7909	MT-GLAZE 100 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R1801 R1802	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R246	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R248	401 105 0603	MT-GLAZE 10K JA 1/16W
R1807	401 105 0603	MT-GLAZE 10K JA 1/16W	R249	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2516	401 105 5400	MT-GLAZE 47K JA 1/16W
R1809	401 105 7909 401 038 5805	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 430 JA 1/10W	R2517 R2518	401 105 4205 401 105 0603	MT-GLAZE 33K JA 1/16W MT-GLAZE 10K JA 1/16W
R1810 R1811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2519	401 105 5400	MT-GLAZE 47K JA 1/16W
R1823	401 105 0603	MT-GLAZE 10K JA 1/16W	R2533	401 105 5400	MT-GLAZE 47K JA 1/16W
R1826	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1827	401 105 2904	MT-GLAZE 22K JA 1/16W	R254	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1828	401 105 8203	MT-GLAZE 68K JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R2541 R2547	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W
R1833 R1836	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R255	401 105 0300	MT-GLAZE 100 JA 1/16W
R1839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R256	401 105 0405	MT-GLAZE 100 JA 1/16W
R1841	401 105 0603	MT-GLAZE 10K JA 1/16W	R2561	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1842	401 105 0603	MT-GLAZE 10K JA 1/16W	R2562	401 105 7305	MT-GLAZE 820 JA 1/16W
R1843	401 105 0603	MT-GLAZE 10K JA 1/16W	R2571 R2572	401 105 1501 401 105 7305	MT-GLAZE 1.5K JA 1/16W MT-GLAZE 820 JA 1/16W
R1844 R1848	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R2572 R258	401 105 7305	MT-GLAZE 820 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R1851	401 105 0603	MT-GLAZE 10K JA 1/16W	R2581	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1852	401 105 1105	MT-GLAZE 12K JA 1/16W	R2582	401 105 7305	MT-GLAZE 820 JA 1/16W
R1853	401 105 0405	MT-GLAZE 100 JA 1/16W	R2603	401 102 7506	MT-GLAZE 22 JA 1W
R1854	401 105 2508	MT-GLAZE 20K JA 1/16W	R2604	401 102 7506	MT-GLAZE 22 JA 1W
R1856	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	R2606 R2607	401 102 7506 401 102 7506	MT-GLAZE 22 JA 1W MT-GLAZE 22 JA 1W
R1857 R1858	401 105 0306	MT-GLAZE 0.000 ZA 1/16W	R2608	401 102 7506	MT-GLAZE 22 JA 1W
R1862	401 105 0603	MT-GLAZE 10K JA 1/16W	R2611	401 105 0405	MT-GLAZE 100 JA 1/16W
R1864	401 105 7909	MT-GLAŻE 0.000 ZA 1/16W	R2612	401 102 7605	MT-GLAZE 27 JA 1W
R1868	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2613	401 102 7605	MT-GLAZE 27 JA 1W
R1879	401 105 7909 401 105 0603	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W	R2616 R2617	401 102 7605 401 102 7605	MT-GLAZE 27 JA 1W MT-GLAZE 27 JA 1W
R1884 R1952	401 105 0603	MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	R2617	401 102 7605	MT-GLAZE 27 JA 1W
R1953	401 105 0603	MT-GLAZE 10K JA 1/16W	R2633	401 198 7909	MT-GLAZE 47 JA 1W
R1955	401 105 0405	MT-GLAZE 100 JA 1/16W	R2851	401 105 4502	MT-GLAZE 390 JA 1/16W
R1957	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2852	401 105 4502	MT-GLAZE 390 JA 1/16W
R1960	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R2853	401 105 5301 401 105 0504	MT-GLAZE 4.7K JA 1/16W MT-GLAZE 1K JA 1/16W
R1962 R1963	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R2855 R2857	401 105 0504	MT-GLAZE 1K JA 1/16W
R1964	401 105 0603	MT-GLAZE 10K JA 1/16W	R2859	401 105 0504	MT-GLAZE 1K JA 1/16W
R1967	401 105 0603	MT-GLAZE 10K JA 1/16W	R2861		MT-GLAZE 3.9K JA 1/16W
R1969	401 105 0603	MT-GLAZE 10K JA 1/16W	R2862	401 105 5301	MT-GLAZE 4.7K JA 1/16W
△ R1971	402 080 7007	FUSIBLE RES 1.8 JH 1/4W	R2864	401 105 0504	MT-GLAZE 1K JA 1/16W
⚠ R1972 ⚠ R1973	402 080 7007 402 083 2207	FUSIBLE RES 1.8 JH 1/4W FUSIBLE RES 4.7 JH 1/4W	R2870 R2871	401 105 2904 401 105 7909	MT-GLAZE 22K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
⚠ R1974	402 083 2207	FUSIBLE RES 4.7 JH 1/4W	R2872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
⚠ R1975	402 080 7007	FUSIBLE RES 1.8 JH 1/4W	R2873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1992	401 105 0306	MT-GLAZE 10 JA 1/16W	R2874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1994	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1995 R1996	401 105 5103 401 105 7909	MT-GLAZE 47 JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R2876 R2877	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R218	401 105 0405		R2878	401 105 0405	MT-GLAZE 100 JA 1/16W
R2201	401 234 8600	MT-GLAZE 8.2K FA 1/16W	R2879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2202	401 105 0603	MT-GLAZE 10K JA 1/16W	R2880	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2203	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R2881	401 105 0603	MT-GLAZE 10K JA 1/16W
R2207	401 105 5103	MT-GLAZE 47 JA 1/16W	R2883 R2884	401 105 0603 401 105 0405	MT-GLAZE 10K JA 1/16W MT-GLAZE 100 JA 1/16W
R2212 R2213	401 105 5202 401 105 4502	MT-GLAZE 470 JA 1/16W MT-GLAZE 390 JA 1/16W	R2887	401 105 0405	MT-GLAZE 100 JA 1/16W
R2222	401 105 5202	MT-GLAZE 470 JA 1/16W	R2891	401 105 0504	MT-GLAZE 1K JA 1/16W
R2223	401 105 4502	MT-GLAZE 390 JA 1/16W	R2892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2232	401 105 5202	MT-GLAZE 470 JA 1/16W	R2893	401 105 0603	MT-GLAZE 10K JA 1/16W
R2233	401 105 4502	MT-GLAZE 390 JA 1/16W	R2896	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R2236 R2237	401 113 4402 401 113 4402	MT-GLAZE 75 JA 1/16W MT-GLAZE 75 JA 1/16W	R2897 R301	401 105 7909	
K443/	#OT TTO ##07	MI-GUALE /3 UA 1/10W	TOCA	-01 TOD 0003	ION ON 1/10W

Pot No	Port No.	Descriptio		Ref. No.	Part No.	Description	
Ref. No.	Part No.			·			
R302	401 105 0603	MT-GLAZE	10K JA 1/16W	R3378	401 105 5103	MT-GLAZE 47 JA 1/16W	
R303 R304	401 105 0405 401 105 2805	MT-GLAZE MT-GLAZE	100 JA 1/16W 2.2K JA 1/16W	R3379 R338	401 105 5103 401 105 0306	MT-GLAZE 47 JA 1/16W MT-GLAZE 10 JA 1/16W	
R305	401 105 2803	MT-GLAZE	10K JA 1/16W	R3381	401 105 5103	MT-GLAZE 47 JA 1/16W	
R307	401 105 0306	MT-GLAZE	10 JA 1/16W	R3382	401 105 0306	MT-GLAZE 10 JA 1/16W	
R308	401 105 5905	MT-GLAZE	560 JA 1/16W	R3383	401 105 5103	MT-GLAZE 47 JA 1/16W	
R309	401 113 5904	MT-GLAZE	1.3K JA 1/16W	R3384	401 105 0306	MT-GLAZE 10 JA 1/16W	
R311	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3386	401 105 5103	MT-GLAZE 47 JA 1/16W	
R314	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3387	401 105 0306	MT-GLAZE 10 JA 1/16W	
R316	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3388	401 105 0306	MT-GLAZE 10 JA 1/16W	
R317 R318	401 105 7909 401 105 5509	MT-GLAZE MT-GLAZE	0.000 ZA 1/16W 470K JA 1/16W	R3389 R339	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	
R321	401 105 0603	MT-GLAZE	10K JA 1/16W	R3390	401 105 0306	MT-GLAZE 10 JA 1/16W	
R324	401 037 5004	MT-GLAZE	0.000 ZA 1/10W	R3391	401 105 0306	MT-GLAZE 10 JA 1/16W	
R327	401 105 0603	MT-GLAZE	10K JA 1/16W	R3392	401 105 0306	MT-GLAZE 10 JA 1/16W	
R329	401 105 0603	MT-GLAZE	10K JA 1/16W	R3393	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3301	401 035 4108	MT-GLAZE	0.000 ZA 1/8W	R3394	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3302		MT-GLAZE	0.000 ZA 1/8W	R3396	401 105 5103	MT-GLAZE 47 JA 1/16W	
R3304 R3306	401 105 0603 401 105 0603	MT-GLAZE MT-GLAZE	10K JA 1/16W 10K JA 1/16W	R3397 R3399	401 037 5004 401 105 0306	MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 10 JA 1/16W	
R3306 R3307	401 105 0306	MT-GLAZE	10 JA 1/16W	R340	401 105 0603	MT-GLAZE 10 GA 1/16W	
R3307	401 105 0306	MT-GLAZE	10 JA 1/16W	R3402	401 105 0603	MT-GLAZE 10K JA 1/16W	
R3309	401 105 0306	MT-GLAZE	10 JA 1/16W	R3404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3310	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R343	401 105 0603	MT-GLAZE 10K JA 1/16W	
R3314	401 105 0306	MT-GLAZE	10 JA 1/16W	R346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3315	401 105 0603	MT-GLAZE	10K JA 1/16W	R349	401 105 0603	MT-GLAZE 10K JA 1/16W	
R3316	401 105 0306	MT-GLAZE	10 JA 1/16W	R350	401 105 0306 401 105 1501	MT-GLAZE 10 JA 1/16W MT-GLAZE 1.5K JA 1/16W	
R3317 R3319	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R3501 R3502	401 105 1301	MT-GLAZE 1.5K JA 1/16W	
R3319	401 105 0603	MT-GLAZE	10 JA 1/16W	R3502	401 105 5301	MT-GLAZE 4.7K JA 1/16W	
R3321	401 105 0306	MT-GLAZE	10 JA 1/16W	R3504	401 105 0603	MT-GLAZE 10K JA 1/16W	
R3322	401 105 0306	MT-GLAZE	10 JA 1/16W	R3506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3323	401 105 0306	MT-GLAZE	10 JA 1/16W	R3507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3324	401 105 0306	MT-GLAZE	10 JA 1/16W	R351	401 105 0603	MT-GLAZE 10K JA 1/16W	
R3326 R3327	401 105 0306 401 105 7909	MT-GLAZE MT-GLAZE	10 JA 1/16W 0.000 ZA 1/16W	R3511 R3512	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	
R3328	401 105 7909	MT-GLAZE	10 JA 1/16W	R3512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3329	401 105 0306	MT-GLAZE	10 JA 1/16W	R3521	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3331	401 105 0306	MT-GLAZE	10 JA 1/16W	R3522	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3333	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3523	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3334	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3524	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3336	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R3526	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3337 R3339	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R3527 R3528	401 105 0306 401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	
R3339	401 105 0603	MT-GLAZE	10 JA 1/16W	R3529	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3341	401 105 0603	MT-GLAZE	10K JA 1/16W	R353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3342	401 105 0306	MT-GLAZE	10 JA 1/16W	R3531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3343	401 105 0306	MT-GLAZE	10 JA 1/16W	R3532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3346	401 105 0306	MT-GLAZE	10 JA 1/16W	R3533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3348	401 105 0306	MT-GLAZE	10 JA 1/16W	R3534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3349	401 105 0603 401 105 0306	MT-GLAZE MT-GLAZE	10K JA 1/16W 10 JA 1/16W	R3536 R3537	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	
R335 R3351	401 105 0308	MT-GLAZE	47 JA 1/16W	R3538	401 105 0504	MT-GLAZE 1K JA 1/16W	
R3354	401 105 5103	MT-GLAZE	47 JA 1/16W	R3539	401 105 2805	MT-GLAZE 2.2K JA 1/16W	
R336	401 105 0306	MT-GLAZE	10 JA 1/16W	R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3360	401 105 5103	MT-GLAZE	47 JA 1/16W	R3542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3361	401 105 0306	MT-GLAZE	10 JA 1/16W	R3543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3362	401 105 0306	MT-GLAZE	10 JA 1/16W	R3546	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	
R3363	401 105 0306	MT-GLAZE	10 JA 1/16W	R3549	401 105 7909 401 105 0306	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10 JA 1/16W	
R3364 R337	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R3551 R3552	401 105 0306	MT-GLAZE 10 JA 1/16W MT-GLAZE 10 JA 1/16W	
R3371	401 105 0306	MT-GLAZE	10 JA 1/16W	R3553	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3372	401 105 0306	MT-GLAZE	10 JA 1/16W	R3554	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3373	401 105 5103	MT-GLAZE	47 JA 1/16W	R3556	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3374	401 105 5103	MT-GLAZE	47 JA 1/16W	R3557	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3376	401 105 5103	MT-GLAZE	47 JA 1/16W	R3558	401 105 0306	MT-GLAZE 10 JA 1/16W	
R3377	401 105 5103	MT-GLAZE	47 JA 1/16W	R3559	401 105 0306	MT-GLAZE 10 JA 1/16W	

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description
R356	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R424	401 105 0306	MTT-GLAZE 10 JA 1/16W
R3561	401 105 4205	MT-GLAZE	33K JA 1/16W	R430	401 105 0405	MT-GLAZE 100 JA 1/16W
R3562	401 105 7404	MT-GLAZE	8.2K JA 1/16W	R431	401 105 0405	MT-GLAZE 100 JA 1/16W
R3563	401 105 0603	MT-GLAZE	10K JA 1/16W	R432	401 105 0405	MT-GLAZE 100 JA 1/16W
R3566	401 105 7909		0.000 ZA 1/16W	R433	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3567	401 105 7909		0.000 ZA 1/16W	R434 R435	401 105 7909 401 105 7404	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 8.2K JA 1/16W
R3572 R3573	401 105 7909 401 105 7909		0.000 ZA 1/16W 0.000 ZA 1/16W	R436	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3576	401 105 7909		0.000 ZA 1/16W	R437	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3577	401 105 7909		0.000 ZA 1/16W	R438	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3578	401 105 0504	MT-GLAZE	1K JA 1/16W	R439	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3581	401 105 2805	MT-GLAZE	2.2K JA 1/16W	R441	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3582	401 105 0504	MT-GLAZE	1K JA 1/16W	R442	401 105 1105	MT-GLAZE 12K JA 1/16W
R3583	401 035 4108	MT-GLAZE	0.000 ZA 1/8W	R443	401 105 1105	MT-GLAZE 12K JA 1/16W
R359	401 105 0603	MT-GLAZE	10K JA 1/16W	R444	401 105 1105	MT-GLAZE 12K JA 1/16W
R3591	401 105 0306	MT-GLAZE	10 JA 1/16W	R445	401 105 0603	MT-GLAZE 10K JA 1/16W
R3592	401 105 0306	MT-GLAZE	10 JA 1/16W	R446	401 105 0603	MT-GLAZE 10K JA 1/16W
R3593	401 105 0306	MT-GLAZE	10 JA 1/16W	R447	401 105 0603	MT-GLAZE 10K JA 1/16W
R3594	401 105 0306	MT-GLAZE	10 JA 1/16W	R451	401 105 7909 401 105 0603	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W
R3596	401 105 0306 401 105 0306	MT-GLAZE MT-GLAZE	10 JA 1/16W 10 JA 1/16W	R452 R453	401 105 0603	MT-GLAZE 10K JA 1/16W
R3597 R3598	401 105 0306	MT-GLAZE	10 JA 1/16W	R454	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3599	401 105 0306	MT-GLAZE	10 JA 1/16W	R461	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R361	401 105 0405	MT-GLAZE	100 JA 1/16W	R463	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R367	401 105 0603	MT-GLAZE	10K JA 1/16W	R466	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R371	401 105 0306	MT-GLAZE	10 JA 1/16W	R470	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R373	401 105 2805	MT-GLAZE	2.2K JA 1/16W	R471	401 105 0504	MT-GLAZE 1K JA 1/16W
R3801	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3806	401 105 0405	MT-GLAZE	100 JA 1/16W	R474	401 105 0603	MT-GLAZE 10K JA 1/16W
R3811	401 105 0603	MT-GLAZE	10K JA 1/16W	R475	401 105 0603	MT-GLAZE 10K JA 1/16W
R3812	401 105 0603	MT-GLAZE	10K JA 1/16W	R476 R477	401 105 7909 401 105 4502	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 390 JA 1/16W
R3813	401 105 0603 401 105 0603	MT-GLAZE MT-GLAZE	10K JA 1/16W 10K JA 1/16W	R477	401 105 4502	MT-GLAZE 390 JA 1/16W MT-GLAZE 1K JA 1/16W
R3814 R3816	401 105 0603	MT-GLAZE	10K JA 1/16W	R479	401 105 0504	MT-GLAZE 1K JA 1/16W
R3841	401 105 7909		0.000 ZA 1/16W	R481	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3842	401 105 7909		0.000 ZA 1/16W	R484	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3851	401 105 0603	MT-GLAZE	10K JA 1/16W	R486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3852	401 105 4205	MT-GLAZE	33K JA 1/16W	R491	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3861	401 105 7909	MT-GLAZE	0.000 ZA 1/16W	R492	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3862	401 105 0603	MT-GLAZE	10K JA 1/16W	R493	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3863	401 105 0603	MT-GLAZE	10K JA 1/16W	R494	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3864	401 105 7909		0.000 ZA 1/16W	R5001	401 105 0702	MT-GLAZE 100K JA 1/16W MT-GLAZE 100K JA 1/16W
R3866	401 105 7909 401 105 7909		0.000 ZA 1/16W 0.000 ZA 1/16W	R5002 R5003	401 105 0702 401 105 0702	
R3867 R3871	401 105 7909		0.000 ZA 1/16W	R5003	401 105 0702	
R3882	401 105 7909		100 JA 1/16W	R5004	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R3883	401 105 0603	MT-GLAZE	10K JA 1/16W	R5007	401 105 1105	MT-GLAZE 12K JA 1/16W
R3884	401 105 0405	MT-GLAZE	100 JA 1/16W	R5008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3886	401 105 7909		0.000 ZA 1/16W	R5009	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3891	401 105 0405	MT-GLAZE	100 JA 1/16W	R501	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R401	401 105 0603	MT-GLAZE	10K JA 1/16W	R5010	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R402	401 105 0603	MT-GLAZE	10K JA 1/16W	R5011	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R403	401 217 3202	MT-GLAZE	51K FA 1/16W	R5013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R404	401 212 1708	MT-GLAZE	24K FA 1/16W	R5014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R405	401 105 0504	MT-GLAZE	1K JA 1/16W	R5015	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R406	401 105 7909		0.000 ZA 1/16W	R5016 R5017	401 105 1501 401 105 2003	MT-GLAZE 1.5K JA 1/16W MT-GLAZE 1.8K JA 1/16W
R407 R409	401 105 0504 401 105 8203	MT-GLAZE MT-GLAZE	1K JA 1/16W 68K JA 1/16W	R5017 R5018	401 105 2003	MT-GLAZE 1.0K JA 1/16W
R409 R411	401 105 8203	MT-GLAZE	39K JA 1/16W	R502	401 105 7503	MT-GLAZE 1K JA 1/16W
R412	401 105 4700	MT-GLAZE	56K JA 1/16W	R5021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R413	401 105 4205	MT-GLAZE	33K JA 1/16W	R5022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R414	401 105 4205	MT-GLAZE	33K JA 1/16W	R5023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R415	401 105 4205	MT-GLAZE	33K JA 1/16W	R5024	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R419	401 105 0306	MT-GLAZE	10 JA 1/16W	R5026	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R421	401 105 0306	MT-GLAZE	10 JA 1/16W	R5027	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R422	401 105 0306	MT-GLAZE	10 JA 1/16W	R5028	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R423	401 105 0306	MT-GLAZE	10 JA 1/16W	R5029	401 105 2805	MT-GLAZE 2.2K JA 1/16W

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description
R503	401 105 2805	MT-GLAZE 2	.2K JA 1/16W	R5209	401 105 0504	MT-GLAZE 1K JA 1/16W
R5031	401 105 2803		470 JA 1/16W	R521	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5036	401 105 7909		000 ZA 1/16W	R5211	401 262 8504	MT-GLAZE 62 FA 1/16W
R5037	401 105 7909		000 ZA 1/16W	R5212	401 105 0405	MT-GLAZE 100 JA 1/16W
R504	401 105 7909		000 ZA 1/16W	R5213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5041	401 105 0603	MT-GLAZE	10K JA 1/16W	R5214	401 105 0504	MT-GLAZE 1K JA 1/16W
R5043	401 105 0603	MT-GLAZE	10K JA 1/16W	R5215	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5044	401 105 0603	MT-GLAZE	10K JA 1/16W	R5216	403 157 3106	CERAMIC 56P J 50V
R5046	401 105 5301	MT-GLAZE 4	.7K JA 1/16W	R5217	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5047	401 105 0603		10K JA 1/16W	R5218	401 105 2904	MT-GLAZE 22K JA 1/16W
R5048	401 105 2904		22K JA 1/ 1 6W	R5219	401 105 0603	MT-GLAZE 10K JA 1/16W
R505	401 105 7909		000 ZA 1/16W	R522	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R506	401 105 7909		000 ZA 1/16W	R5221	401 262 8504	MT-GLAZE 62 FA 1/16W
R507	401 105 7909		000 ZA 1/16W	R5222	401 105 0405	MT-GLAZE 100 JA 1/16W
R508	401 105 7909		000 ZA 1/16W	R5223 R5225	401 105 0504 401 105 7909	MT-GLAZE 1K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R509 R510	401 105 4007 401 105 7909		330 JA 1/16W 000 ZA 1/16W	R5225	403 157 3106	CERAMIC 56P J 50V
R5103	401 105 7909	MT-GLAZE	18 JA 1/16W	R5227	401 262 8504	MT-GLAZE 62 FA 1/16W
R5103	401 105 1808	MT-GLAZE	18 JA 1/16W	R5228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5104	401 105 1808	MT-GLAZE	18 JA 1/16W	R523	401 105 1600	MT-GLAZE 15K JA 1/16W
R5107	401 105 5806	MT-GLAZE	56 JA 1/16W	R5231	401 262 8504	MT-GLAZE 62 FA 1/16W
R5108	401 105 5806	MT-GLAZE	56 JA 1/16W	R5232	401 105 0405	MT-GLAZE 100 JA 1/16W
R5109	401 105 5806	MT-GLAZE	56 JA 1/16W	R5233	401 105 0504	MT-GLAZE 1K JA 1/16W
R511	401 105 7909	MT-GLAZE 0.	000 ZA 1/16W	R5235	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5110	401 105 0306	MT-GLAZE	10 JA 1/16W	R5236	403 157 3106	CERAMIC 56P J 50V
R5113	401 105 0603	MT-GLAZE	10K JA 1/16W	R524	401 105 1600	MT-GLAZE 15K JA 1/16W
R5114	401 105 0603	MT-GLAZE	10K JA 1/16W	R5245	401 105 6506	MT-GLAZE 680 JA 1/16W
R5115	401 105 0306	MT-GLAZE	10 JA 1/16W	R5247	401 105 6506	MT-GLAZE 680 JA 1/16W
R5116	401 105 5103	MT-GLAZE	47 JA 1/16W	R5249	401 105 6506	MT-GLAZE 680 JA 1/16W
R5117	401 105 5103	MT-GLAZE	47 JA 1/16W	R525	401 105 0603	MT-GLAZE 10K JA 1/16W
R5118	401 105 5103	MT-GLAZE	47 JA 1/16W	R5251	645 033 1725	INDUCTOR, 80 OHM
R5119	401 105 5103	MT-GLAZE	47 JA 1/16W	R5252	401 113 4907	MT-GLAZE 200 JA 1/16W
R512	401 105 7909		000 ZA 1/16W	R5253	401 105 0900	MT-GLAZE 120 JA 1/16W MT-GLAZE 390 JA 1/16W
R5121	401 105 5103	MT-GLAZE	47 JA 1/16W	R5255	401 105 4502 401 105 0504	MT-GLAZE 390 JA 1/16W MT-GLAZE 1K JA 1/16W
R5122 R5123	401 105 5103 401 105 5103	MT-GLAZE MT-GLAZE	47 JA 1/16W 47 JA 1/16W	R5256 R5257	401 105 0504	MT-GLAZE 3.9K JA 1/16W
R5123	401 105 5103	MT-GLAZE	47 JA 1/16W	R5257	401 105 3901	MT-GLAZE 3.3 JA 1/16W
R5124	401 105 5103	MT-GLAZE	47 JA 1/16W	R5259R	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5127	401 105 5103	MT-GLAZE	47 JA 1/16W	R526	401 105 0504	MT-GLAZE 1K JA 1/16W
R5128	401 105 5103	MT-GLAZE	47 JA 1/16W	R5261	645 033 1725	INDUCTOR, 80 OHM
R5129	401 105 5103	MT-GLAZE	47 JA 1/16W	R5262	401 113 4907	MT-GLAZE 200 JA 1/16W
R5131	401 105 5103	MT-GLAZE	47 JA 1/16W	R5263	401 105 0900	MT-GLAZE 120 JA 1/16W
R5132	401 105 5103	MT-GLAZE	47 JA 1/16W	R5265	401 105 4502	MT-GLAZE 390 JA 1/16W
R5133	401 105 5103	MT-GLAZE	47 JA 1/16W	R5266	401 105 0504	MT-GLAZE 1K JA 1/16W
R5134	401 105 5103	MT-GLAZE	47 JA 1/16W	R5267	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R5136	401 105 5103	MT-GLAZE	47 JA 1/16W	R5269	401 105 3901	MT-GLAZE 33 JA 1/16W
R5137	401 105 5103	MT-GLAZE	47 JA 1/16W	R5269G	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5138	401 105 5103	MT-GLAZE	47 JA 1/16W	R527	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5139	401 105 5103	MT-GLAZE	47 JA 1/16W	R5270	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5141	401 105 5103	MT-GLAZE	47 JA 1/16W	R5271	645 033 1725	INDUCTOR, 80 OHM
R5142	401 037 5004		000 ZA 1/10W	R5272	401 113 4907	MT-GLAZE 200 JA 1/16W
R5144	401 105 5103	MT-GLAZE	47 JA 1/16W	R5273 R5275	401 105 0900 401 105 4502	MT-GLAZE 120 JA 1/16W MT-GLAZE 390 JA 1/16W
R5146	401 037 5004 401 105 7909		000 ZA 1/10W 000 ZA 1/16W	R5275 R5276	401 105 4502	MT-GLAZE 1K JA 1/16W
R515 R516	401 105 7909		000 ZA 1/16W	R5276	401 105 0504	MT-GLAZE 1.9K JA 1/16W
R516 R517	401 105 7909		000 ZA 1/16W	R5277	401 105 3901	MT-GLAZE 3.3K GA 1/16W
R517	401 105 7909		000 ZA 1/16W	R5279B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R519	401 105 7909		000 ZA 1/16W	R528	401 105 0603	MT-GLAZE 10K JA 1/16W
R520	401 105 7909		000 ZA 1/16W	R5280	401 105 0306	MT-GLAZE 10 JA 1/16W
R5201	401 105 0504	MT-GLAZE	1K JA 1/16W	R5281	401 113 4402	MT-GLAZE 75 JA 1/16W
R5202	401 105 0306	MT-GLAZE	10 JA 1/16W	R5282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5203	401 105 0306	MT-GLAZE	10 JA 1/16W	R5283V	401 105 0504	MT-GLAZE 1K JA 1/16W
R5204	401 105 0504	MT-GLAZE	1K JA 1/16W	R5283Y	401 105 0504	MT-GLAZE 1K JA 1/16W
R5205	401 105 7909	MT-GLAZE 0.	000 ZA 1/16W	R5284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5206	401 105 0504	MT-GLAZE	1K JA 1/16W	R5285	401 105 0900	MT-GLAZE 120 JA 1/16W
R5207	401 105 0306	MT-GLAZE	10 JA 1/16W	R5286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5208	401 105 0306	MT-GLAZE	10 JA 1/16W	R5287	401 105 0504	MT-GLAZE 1K JA 1/16W

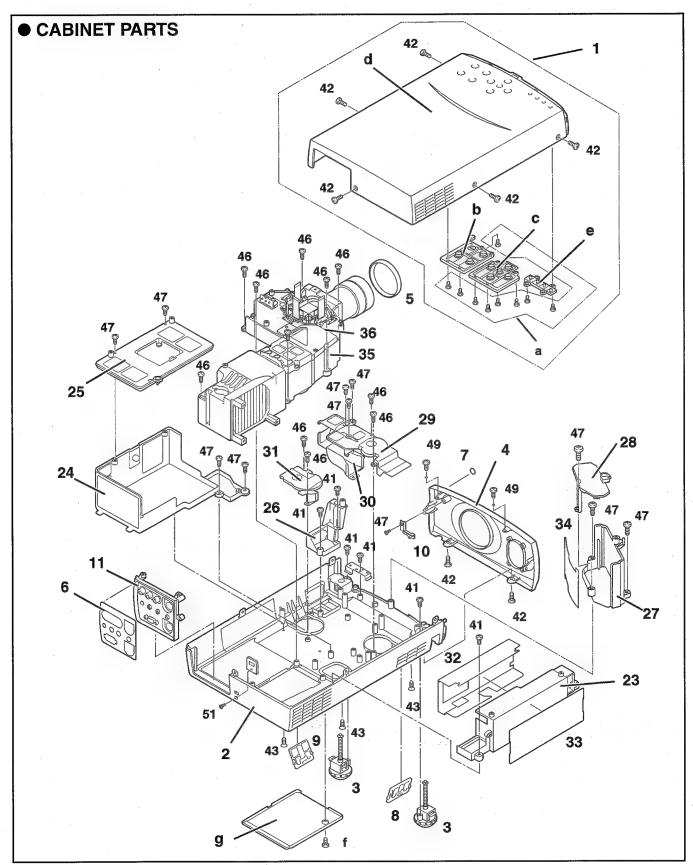
Electrical Pai	T IS LIST				
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R5288	401 113 4402	MT-GLAZE 75 JA 1/16W	R6123	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5289	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6126	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R5291 R5296	401 113 4402 401 105 7909	MT-GLAZE 75 JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6128 R6131	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5298	401 105 7503	MT-GLAZE 1.000 ZA 1/10W	R6135	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5299	401 262 8504	MT-GLAZE 62 FA 1/16W	R6136	401 105 5103	MT-GLAZE 47 JA 1/16W
R531	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R6146	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R532	401 105 0504	MT-GLAZE 1K JA 1/16W	R6150	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R533	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R6154	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6156 R6157	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R535 R536	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6158	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6165	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6167	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R539	401 105 4007	MT-GLAZE 330 JA 1/16W	R6172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6174	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6201 R6202	401 113 4402 401 113 4402	MT-GLAZE 75 JA 1/16W MT-GLAZE 75 JA 1/16W
R542 R545	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6202	401 113 4402	MT-GLAZE 75 JA 1/16W
R546	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6204	401 113 4402	MT-GLAZE 75 JA 1/16W
R547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6206	401 113 4402	MT-GLAZE 75 JA 1/16W
R548	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6207	401 113 4402	MT-GLAZE 75 JA 1/16W
R549	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6208	401 113 4402	MT-GLAZE 75 JA 1/16W
R550	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6209	401 113 4402	MT-GLAZE 75 JA 1/16W MT-GLAZE 75 JA 1/16W
R551	401 105 7404 401 105 7909	MT-GLAZE 8.2K JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6211 R6212	401 113 4402 401 113 4402	MT-GLAZE 75 JA 1/16W MT-GLAZE 75 JA 1/16W
R552 R553	401 105 7909	MT-GLAZE 15K JA 1/16W	R6213	401 113 4402	MT-GLAZE 75 JA 1/16W
R554	401 105 1600	MT-GLAZE 15K JA 1/16W	R6214	401 113 4402	MT-GLAZE 75 JA 1/16W
R555	401 105 0603	MT-GLAZE 10K JA 1/16W	R6231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R556	401 105 0504	MT-GLAZE 1K JA 1/16W	R6232	401 105 0603	MT-GLAZE 10K JA 1/16W
R557	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6236	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 10K JA 1/16W
R558 R561	401 105 0603 401 105 2003	MT-GLAZE 10K JA 1/16W MT-GLAZE 1.8K JA 1/16W	R6237 R6600	401 105 0603 401 113 5508	MT-GLAZE 10K UA 1/16W MT-GLAZE 620 JA 1/16W
R562	401 105 2003	MT-GLAZE 1.5K CA 1/16W	R6602	401 105 0504	MT-GLAZE 1K JA 1/16W
R563	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R6603	401 105 0306	MT-GLAZE 10 JA 1/16W
R564	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6604	401 105 0504	MT-GLAZE 1K JA 1/16W
R565	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	-R6605	401 105 0504	MT-GLAZE 1K JA 1/16W
R566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6606	401 105 0603 401 105 7909	MT-GLAZE 10K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R567 R568	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6607 R6611	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R569	401 105 4007	MT-GLAZE 330 JA 1/16W	R6612	401 105 0603	MT-GLAZE 10K JA 1/16W
R570	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6613	401 105 0306	MT-GLAZE 10 JA 1/16W
R571	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6615	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6617	401 105 0603	
R575	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6621 R6622	401 105 6001 401 105 7909	MT-GLAZE 5.6K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R576 R577	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6650	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R578	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6655	401 105 0603	MT-GLAZE 10K JA 1/16W
R579	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6656	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R580	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6658	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R581	401 105 7404	MT-GLAZE 8.2K JA 1/16W	R6902	401 105 0504	· ·
R582	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6904 R6908	401 105 0504 401 105 7909	MT-GLAZE 1K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
R583 R584	401 105 1600 401 105 1600	MT-GLAZE 15K JA 1/16W MT-GLAZE 15K JA 1/16W	R6909	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R585	401 105 1603	MT-GLAZE 10K JA 1/16W	R6916	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R586	401 105 0504	MT-GLAZE 1K JA 1/16W	R6917	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R587	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6918	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R588	401 105 0603	MT-GLAZE 10K JA 1/16W	R6921	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6922	401 105 0504 401 105 0504	MT-GLAZE 1K JA 1/16W MT-GLAZE 1K JA 1/16W
R6103 R6104	401 105 5202 401 105 7909	MT-GLAZE 470 JA 1/16W MT-GLAZE 0.000 ZA 1/16W	R6924 R6927	401 105 0504	MT-GLAZE 1.000 ZA 1/16W
R6104 R6106	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6928	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6942	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6946	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6119	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6947	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6120	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6948	401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
R6122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6949	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R6951	401 105 0603	MT-GLAZE 10K JA 1/1		401 105 0405	MT-GLAZE 100 JA 1/16W
R6952	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 105 0405	MT-GLAZE 100 JA 1/16W MT-GLAZE 100 JA 1/16W
R6955	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 105 0405 401 105 7909	
R6956	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/1 MT-GLAZE 0.000 ZA 1/1		401 105 7909	
R6958 R6961	401 105 7909	MT-GLAZE 0.000 ZA 1/1 MT-GLAZE 0.000 ZA 1/1		401 105 6506	MT-GLAZE 680 JA 1/16W
R6963	401 105 7909	MT-GLAZE 0.000 ZA 1/1	l l	401 105 4007	MT-GLAZE 330 JA 1/16W
R6964	401 105 7909	MT-GLAZE 0.000 ZA 1/1	TAT		200 011 27
R7221	401 105 0405	MT-GLAZE 100 JA 1/1	W VARIABLE		
R7222	401 105 0603	MT-GLAZE 10K JA 1/1	W VR2561		VR, SEMI, 1K S
R7224	401 105 7909	MT-GLAZE 0.000 ZA 1/1	VR2571		VR, SEMI, 1K S
R7225	401 105 7909	MT-GLAZE 0.000 ZA 1/1	W VR2581		VR, SEMI, 1K S
R7226	401 105 0405	MT-GLAZE 100 JA 1/1	VR3561 W VR521		VR, SEMI, 10K S VR, SEMI, 10K S
R7228	401 105 7909	MT-GLAZE 0.000 ZA 1/1	W VR551		VR,SEMI,10K S
R7241	401 230 2503	MT-GLAZE 1K FA 1/1	W VR581	645 025 7421	
R7242	401 235 4403	MT-GLAZE 560 FA 1/1	W VR6601		VR,SEMI,1K S
R7243	401 105 7909	MT-GLAZE 0.000 ZA 1/1	W		, , , , , , , , , , , , , , , , , , , ,
R7244	401 218 4505	MT-GLAZE 2.2K FA 1/1	* * * * * * * * * * * * * * * * * * * *		
R7246	401 105 1907	MT-GLAZE 180 JA 1/1		645 020 1776	INDUCTOR, 3.3U M
R7247	401 218 4406	MT-GLAZE 1.2K FA 1/1		645 020 1776	INDUCTOR, 3.3U M
R7248TM	401 027 5502 401 230 2503	CARBON 6.8K JA 1/		645 020 1776	INDUCTOR, 3.3U M INDUCTOR, 3.3U M
R7251	401 262 8306	MT-GLAZE 1K FA 1/1 MT-GLAZE 470 FA 1/1	,	645 020 1776 645 020 1776	INDUCTOR, 3.3U M
R7252 R7253	401 262 8308	MT-GLAZE 0.000 ZA 1/1	1	645 020 1776	INDUCTOR, 3.3U M
R7254	401 103 7909	MT-GLAZE 2.2K FA 1/1		401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7256	401 105 0306	MT-GLAZE 10 JA 1/1		401 035 4306	MT-GLAZE 10 JA 1/8W
R7257	401 218 4406	MT-GLAZE 1.2K FA 1/1		645 008 4782	INDUCTOR, 1.2U K
R7258TM	401 027 8602	CARBON 8.2K JA 1/		645 008 4782	INDUCTOR, 1.2U K
R7260	401 105 7909	MT-GLAZE 0.000 ZA 1/1		645 008 4782	INDUCTOR, 1.2U K
R7261	401 260 4706	MT-GLAZE 1.5K FA 1/1		645 020 1776	INDUCTOR, 3.3U M
R7262	401 217 3905	MT-GLAZE 3.3K FA 1/1		645 026 1008	INDUCTOR, 3.3U M
R7263	401 219 1107	MT-GLAZE 1.8K FA 1/1	W L501	645 012 2255	INDUCTOR, 0.47U J
R7264	401 218 4505	MT-GLAZE 2.2K FA 1/1	W L502	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7265	401 105 2706	MT-GLAZE 220 JA 1/1	W L503	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R7266	401 203 9805	MT-GLAZE 2.7K FA 1/1		401 035 4603	MT-GLAZE 100 JA 1/8W
R7267	401 262 8306	MT-GLAZE 470 FA 1/1		401 036 9904	MT-GLAZE 560 JA 1/8W
R7268	401 218 4505	MT-GLAZE 2.2K FA 1/1		645 012 2255	INDUCTOR, 0.47U J
R7269	401 218 4604	MT-GLAZE 5.6K FA 1/1		645 020 1776	INDUCTOR, 3.3U M
R7281	401 105 2607	MT-GLAZE 22 JA 1/1		645 020 1776	INDUCTOR, 3.3U M
R7283	401 105 7909 401 024 7004	MT-GLAZE 0.000 ZA 1/1 CARBON 1K JA 1/		645 020 1776 645 002 5129	INDUCTOR, 3.3U M
R7286TM	401 024 7004	CARBON 1K JA 1/ MT-GLAZE 22 JA 1/1	I	645 002 5129	INDUCTOR, 0.47U M INDUCTOR, 0.47U M
R7288 R802	401 105 2607	MT-GLAZE 10K JA 1/1		645 020 1776	INDUCTOR, 3.3U M
R803	401 105 0603	MT-GLAZE 10K JA 1/1		645 012 2255	INDUCTOR, 0.47U J
R806	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 035 4108	
R807	401 105 0603	MT-GLAZE 10K JA 1/1		401 035 4108	
R808	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 035 4603	MT-GLAZE 100 JA 1/8W
R809	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 036 9904	
R820	401 105 7909	MT-GLAZE 0.000 ZA 1/1	1	645 012 2255	INDUCTOR, 0.47U J
R823	401 105 7909	MT-GLAZE 0.000 ZA 1/1		645 012 2255	INDUCTOR, 0.47U J
R824	401 105 7909	MT-GLAZE 0.000 ZA 1/1	W L562	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R825	401 105 7909	MT-GLAZE 0.000 ZA 1/1	W L563	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R826	401 105 7909	MT-GLAZE 0.000 ZA 1/1		401 035 4603	MT-GLAZE 100 JA 1/8W
R827	401 105 7909	MT-GLAZE 0.000 ZA 1/1	I	401 036 9904	MT-GLAZE 560 JA 1/8W
R851	401 105 0603	MT-GLAZE 10K JA 1/1	I	645 012 2255	INDUCTOR, 0.47U J
R852	401 105 0603	MT-GLAZE 10K JA 1/1		645 002 5129	INDUCTOR, 0.47U M
R853	401 105 0405	MT-GLAZE 100 JA 1/1		645 002 5129	INDUCTOR, 0.47U M
R854	401 105 0405	MT-GLAZE 100 JA 1/1	I DIODE		
R856	401 105 0405	MT-GLAZE 100 JA 1/1	M D1831	407 149 0807	DIODE 1SS355-TE-17
R857	401 105 0405	MT-GLAZE 100 JA 1/1	D1971	407 149 0807	DIODE 1SS355-TE-17
R859	401 105 7909 401 105 7909	MT-GLAZE 0.000 ZA 1/1 MT-GLAZE 0.000 ZA 1/1	D2631	407 149 0807	DIODE 1SS355-TE-17
R861	401 105 7909	MT-GLAZE 0.000 ZA 1/1 MT-GLAZE 0.000 ZA 1/1	1 D26/13	407 149 0807	DIODE 1SS355-TE-17
R862 R863	401 105 7909	MT-GLAZE 0.000 ZA 1/1	D2051	407 187 8209	ZENER DIODE UDZ12B-TE-17
R864	401 105 7909	MT-GLAZE 0.000 ZA 1/1	D2052	407 187 8209	ZENER DIODE UDZ12B-TE-17
R865	401 105 7909	MT-GLAZE 100 JA 1/1	D2853	407 187 8209	ZENER DIODE UDZ12B-TE-17
R866	401 105 0405	MT-GLAZE 100 JA 1/1	D205/	407 187 8209	ZENER DIODE UDZ12B-TE-17
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D2864 407 210 0200 LED SML-210PT T86 K 407 210 0101 LED SML-210PT-J-T86 D2865 407 203 7803 LED SML-210LT T86 M 610 288 4777 COVER, DUST-M4GA 610 288 4777 COVER, DUST-M4GA 645 042 2188 CABLE, VIDEO 645 042 2195 CABLE, AUDIO 645 042 2195 CABLE, AUDIO 645 042 2195 CABLE, S TERMINAL 645 042 2195 CABLE, S TERMINAL 645 047 049 0807 DIODE 1SS355-TE-17 645 048 048 048 CABLE, S TERMINAL 646 048 049 049 049 049 049 049 049 049 049 049	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
22864 407 203 7803 LED SML-210LT T86 M 22864 407 210 0200 LED SML-210LT T86 M 267 210 210 1010 LED SML-210LT T86 M 267 210 210 1010 LED SML-210LT T86 M 267 210 0101 LED SML-210LT-J-T86 22865 407 219 8087 DIODE 185355-T8-17 23851 407 149 8087 DIODE 185355-T8-17 23851 407 149 8087 DIODE 185355-T8-17 2451 407 149 8087 DIODE 185355-T8-17 2451 407 149 8087 DIODE 185355-T8-17 2451 407 149 8087 DIODE 185355-T8-17 25001 407 149 8087 DIODE 185355-T8-17 25001 407 149 8087 DIODE 185355-T8-17 25211 407 149 8087 DIODE 185355-T8-17 25211 407 149 8087 DIODE 185355-T8-17 25221 407 149 8087 DIODE 185355-T8-17 25283 407 149 8087 DIODE 185355-T8-17 2	2861	407 209 7500	LED SML-210YT T86 L	ACCESSO	RIES	
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32855 407 203 7803 LED SML-210LT T86 M 33010 407 149 807 DIODE 183555-TE-17 33501 407 149 807 DIODE 183555-TE-17 33501 407 149 1807 DIODE 183555-TE-17 33502 407 149 807 DIODE 183555-TE-17 33622 407 149 807 DIODE 183555-TE-17 3501 407 149 807 DIODE 183555-TE-17 35211 407 149 807 DIODE 183555-TE-17 35211 407 149 807 DIODE 183555-TE-17 35221 407 149 807 DIODE 183555-TE-17 35221 407 149 807 DIODE 183555-TE-17 35222 407 149 807 DIODE 183555-TE-17 35223 407 149 807 DIODE 183555-TE-17 35224 407 149 807 DIODE 183555-TE-17 35225 407 149 807 DIODE 183555-TE-17 35224 407 149 807 DIODE 183555-TE-17 35225 407 149 807 DIODE 183555-TE-17 35226 407 149 807 DIODE 183555-TE-17 35226 407 149 807 DIODE 183555-TE-17 35227 407 149	2864	407 210 0200	LED SML-210PT T86 K		610 287 6901	RC-BATTERY LID-CXGM
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3351 407 149 807 DIODE 158355-TE-17 645 013 8768 CABLE, S TERMINAL 33815 407 179 1706 E38355-TE-17 7 10706 E38355-TE-17 1	2865	407 203 7803	LED SML-210LT T86 M		645 042 2188	CABLE, VIDEO
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10 287 5850 ASSY,PWB,TEMP MK6A A0B10C2930B TEGRATED CIRCUIT 10 287 5850 ASSY,PWB,TEMP MK6A A0B10C2930B TEGRATED CIRCUIT 10 1832 409 481 8602 IC LM76CHMX-5 APACITOR 11833 403 205 7803 TA-SOLID 2.2U M 16V 11871TM 403 011 3402 CERAMIC 120P J 50V 11872TM 403 155 1609 CERAMIC 33P J 50V 11872TM 403 155 1609 CERAMIC 33P J 50V 11872TM 401 105 0306 MT-GLAZE 10 JA 1/16W 11872 401 105 0306 MT-GLAZE 10 JA 1/16W 11873 401 105 0603 MT-GLAZE 10 K JA 1/16W						
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APACITOR 21833			TC IM76CHMX-5		*	
1833						
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R1873 401 105 0603 MT-GLAZE 10K JA 1/16W						
KI8/4 40I IU5 /909 MT-GLAZE 0.000 ZA I/I6W [
	18/4	401 105 7909	MI-GLAZE U.UUU ZA 1/16W			

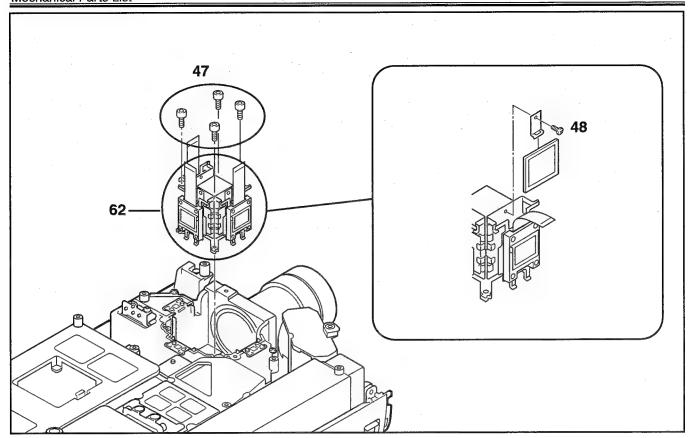
■ Mechanical Parts List

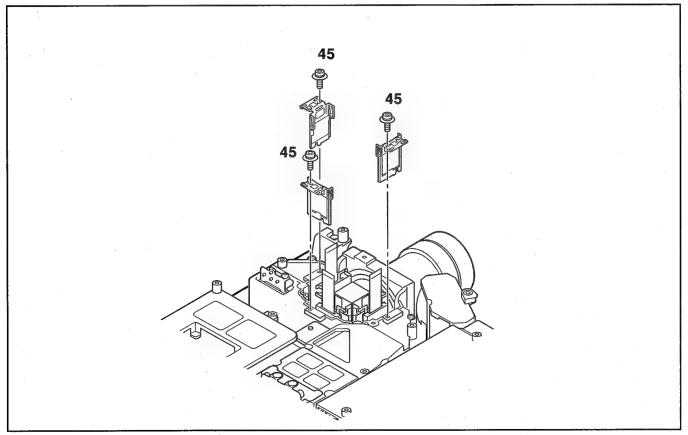
Note: Parts order must contain Chassis No., Part No., and Descriptions.

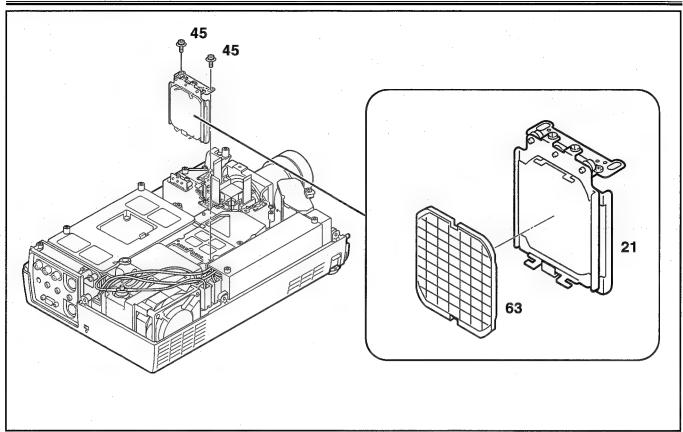


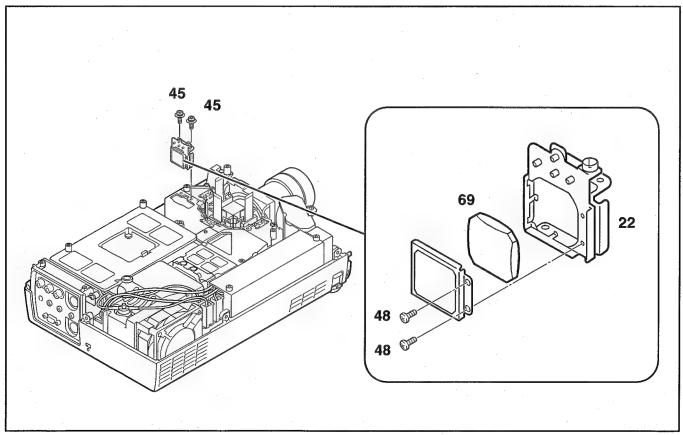
Mechanical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			31	610 286 8364	MOUNTING DUCT TOP BLUE-MK
1	610 288 4548	COMPL, CABINET TOP-M4GA	32	610 286 9804	SPACER SHEET*LP R-MK6A
	(Including Ke	y No. a to e)	33	610 286 9811	SPACER SHEET*LP L-MK6A
a	411 025 3806	SCR S-TPG BIN 2X4	34	610 287 7793	SPACER SHEET*L.F-MK6A
b	610 285 8730	ASSY, BUTTON P-MK6A	35	610 285 1373	OPTICAL BASE BTM-MK6A
С	610 288 4722	BUTTON-M4GA	- 36	610 285 1380	OPTICAL BASE TOP-MK6A
đ	610 288 4746	CABINET TOP-M4GA	•		
е	610 285 7580	DEC INLAY-MK6A			
2	610 288 4708	COMPL, CABINET BTM-M4GA	SCREWS-CA		
	(Including Ke		41	411 025 6500	SCR S-TPG BIN 3X8
f	411 031 9304	SCR BIN 3X8	42	411 031 9304	SCR BIN 3X8
g	610 288 4760	COVER, LP-M4GA	43	411 077 9009	SCR TPG FLT 3X8
3	610 288 4715	ASSY, STAND LEG-M4GA			
4	610 288 4739	CABINET FRONT-M4GA	SCREWS-CH	IACCIC	
5 .	610 285 7559	CAP LENS-MK6A	44	412 058 5409	SPECIAL SCREW
6	610 288 4807	DEC AV SHEET-M4GA	45	411 181 4303	BOLT HEX-SCT+SW+W 2.5X5
7	610 286 6391	DEC SHEET-MK6A	46	411 025 5206	SCR S-TPG BIN 3X10
8	610 285 7634	FILTER BASE L-MK6A	47	411 025 3200	SCR S-TPG BIN 3X10
9	610 285 7641	FILTER BASE R-MK6A	48	411 030 5703	SCR BIN 2X4
10	610 290 4628	HOLDER SENSOR-MK6A	49	411 001 8702	SCR BIN 3X6
11	610 288 4814	PANEL AV-M4GA	50	411 001 8900	SCR BIN 3X8
			51	411 033 3003	SCR FLT 2X4
CHASSIS PA	DTC		1		
21	610 285 8457	COMPL, MOUNTING INT-MK6A			
22	610 285 8464	COMPL, MOUNTING LENS-MK6A			
23	610 285 6736	HOLDER LP PWB-MK6A			
24	610 285 6743	HOLDER POWER PWB B-MK6A			
25	610 285 6750	HOLDER POWER PWB T-MK6A			
26	610 285 6767	HOLDER AC-MK6A			
27	610 285 6781	HOLDER L.F PWB B-MK6A			
28	610 286 9378	HOLDER L.F PWB T-MK6A			
29	610 285 8525	MOUNTING DUCT TOP-MK6A			
30	610 290 2082	MOUNTING DUCT BTM-M4GA			
1					



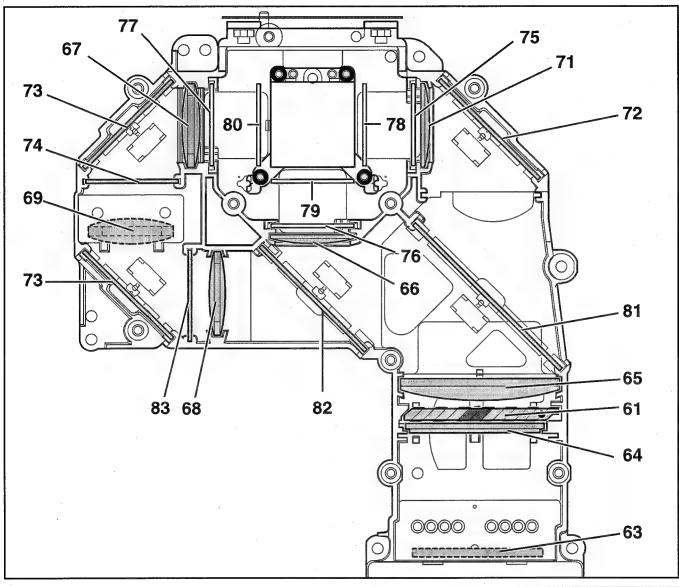


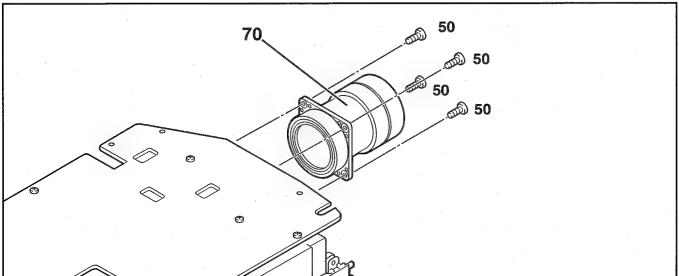




■ Optical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

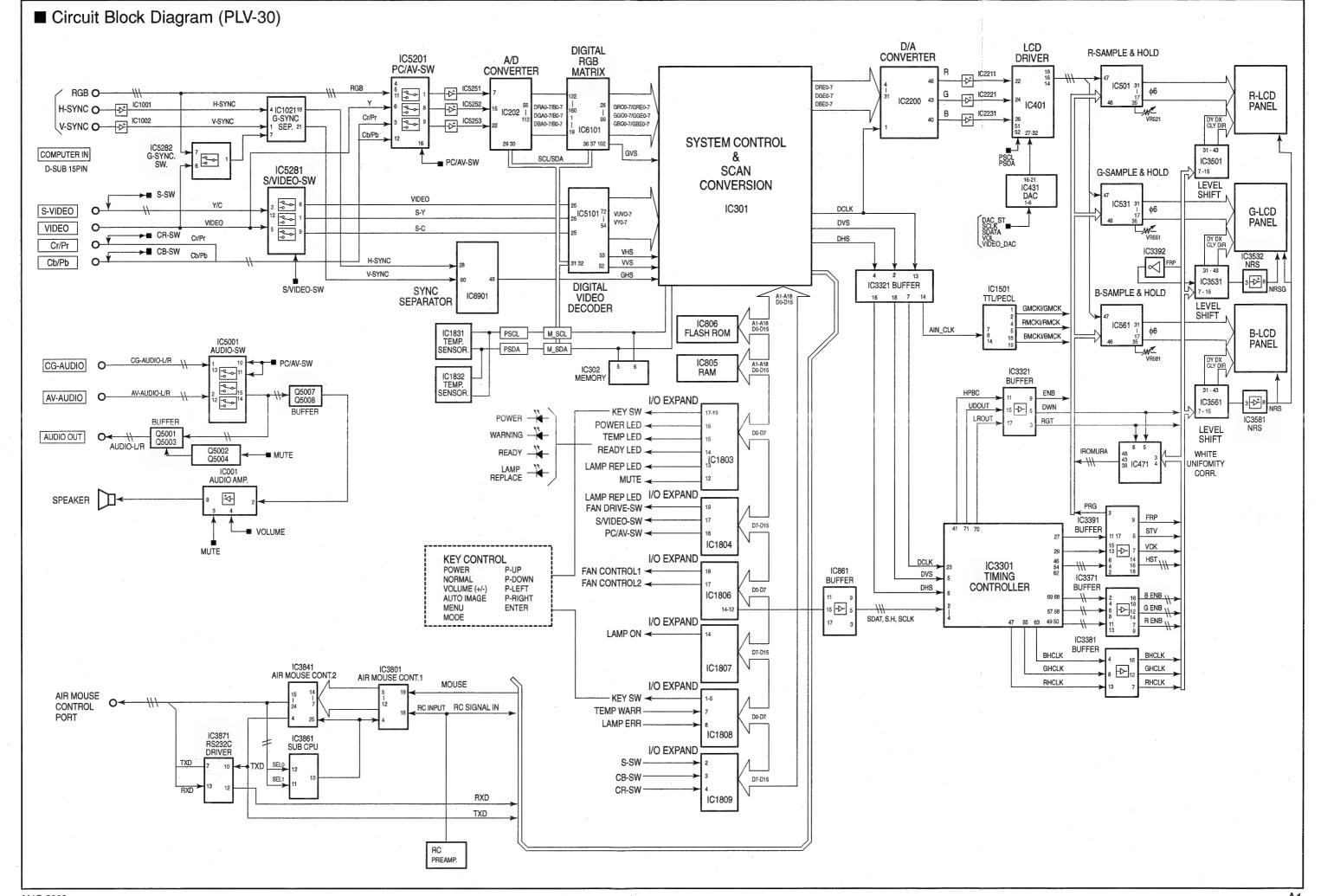


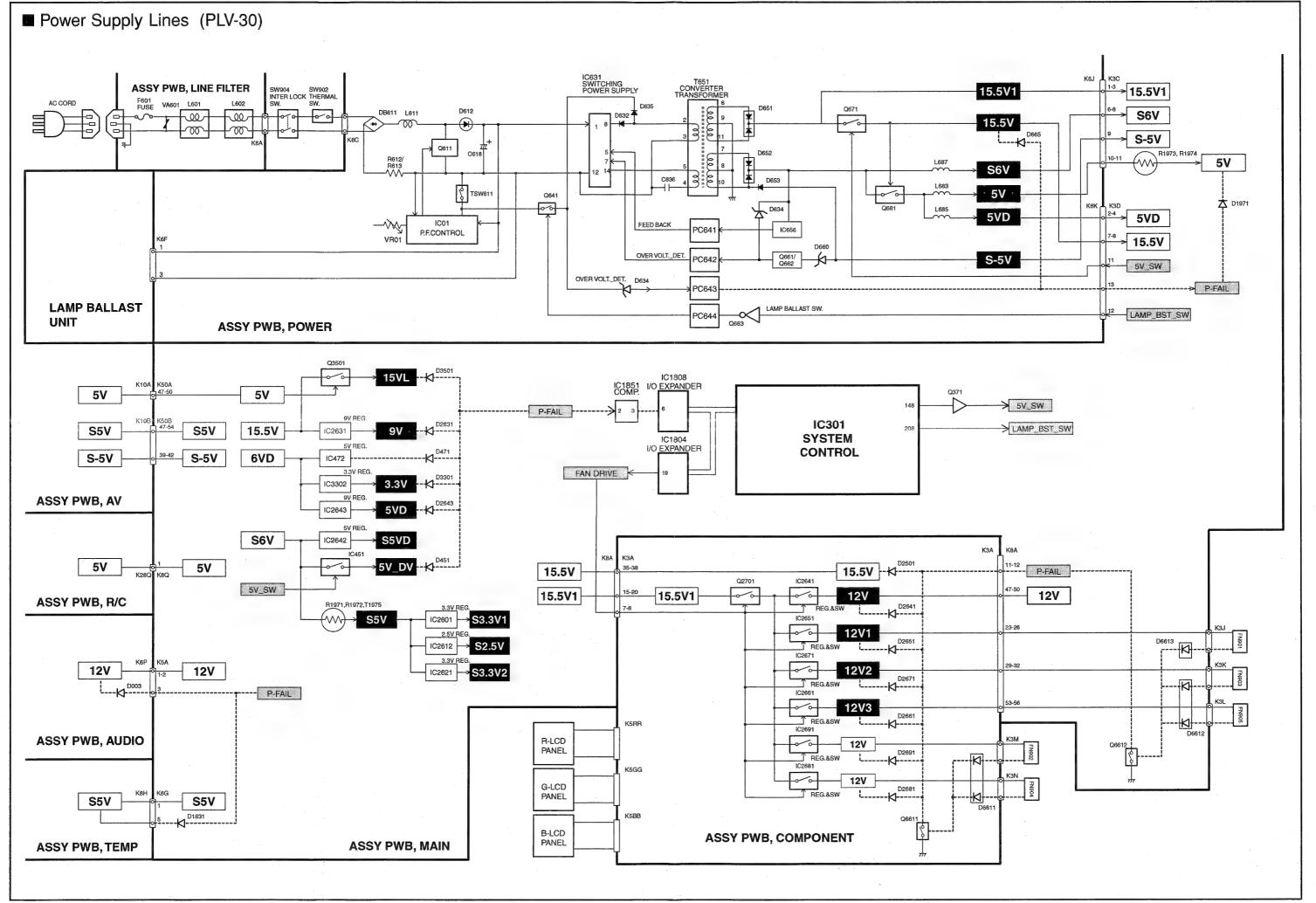


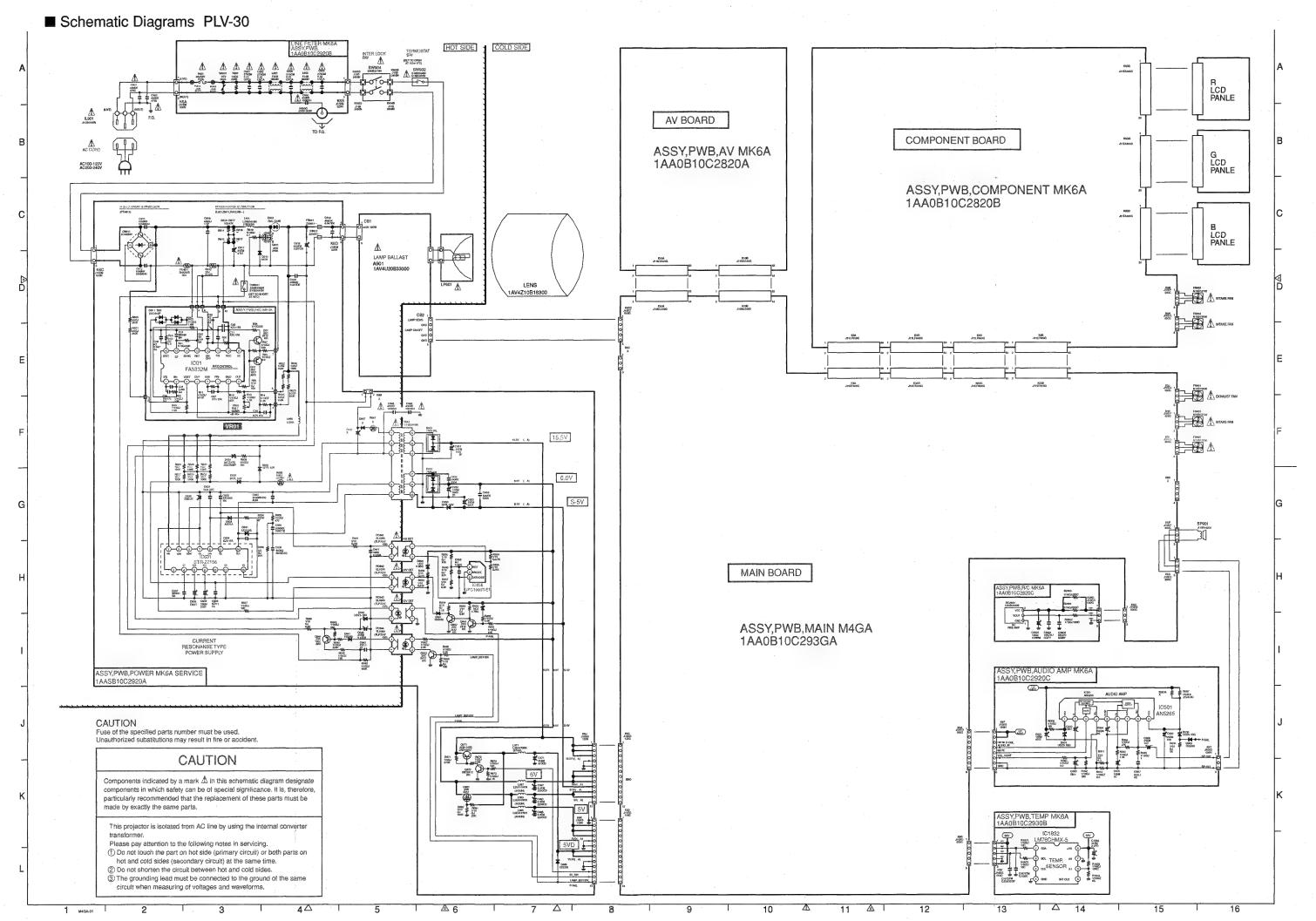
Key No.	Part No.	Description	Key No.	Part No.	Description			
OPTICAL PARTS								
61	645 041 5104	ASSY, PRISM (PBS)	74	645 041 5081	OPTICAL FILTER (UV CUT)			
or	645 044 2452	ASSY, PRISM (PBS)	75	645 045 2338	POLARIZED GLASS(OUT/R)SA			
62	610 289 3816	ASSY, LCD PNL/PRISM-MK6A	76	645 045 2345	POLARIZED GLASS (OUT/G) SA			
(Including R,G		G,B LCD Panels and Key No.	77	645 045 2352	POLARIZED GLASS(OUT/B)SA			
	48, 78, 79, 8	0)	78	645 044 1059	POLARIZED GLASS(IN/R)SA			
63	645 041 5005	LENS, INTEGRATOR (IN)	79	645 044 1066	POLARIZED GLASS(IN/G)SA			
64	645 041 5012	LENS, INTEGRATOR (OUT)	80	645 044 1073	POLARIZED GLASS(IN/B)SA			
. 65	645 041 5029	LENS, CONDENSER (OUT)	81	645 044 1004	DICHROIC MIRROR (R)			
66	645 041 5036	LENS, CONDENSER	82	645 044 1011	DICHROIC MIRROR (G)			
67	645 041 5043	LENS, CONDENSER(B)	83	645 044 0526	OPTICAL FILTER (RG)			
68	645 041 5050	LENS, RELAY(IN)			*			
69	645 041 5067	LENS, RELAY (OUT)						
70	645 044 3015	LENS, PROJECTION						
71	645 044 0564	LENS, CONDENSER (RV)						
72	645 041 5494	MIRROR(R)						
73	645 041 5500	MIRROR(B)						

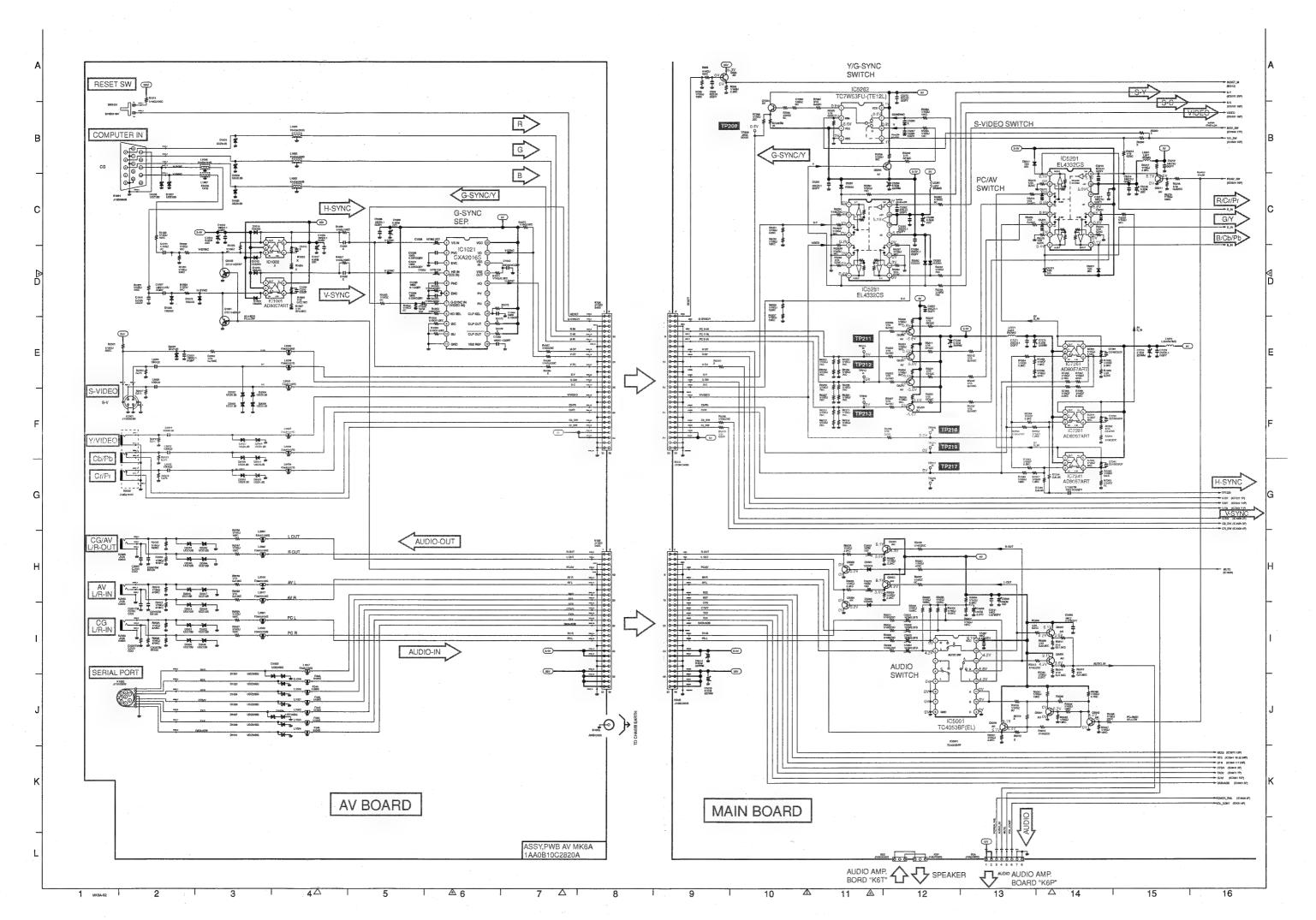
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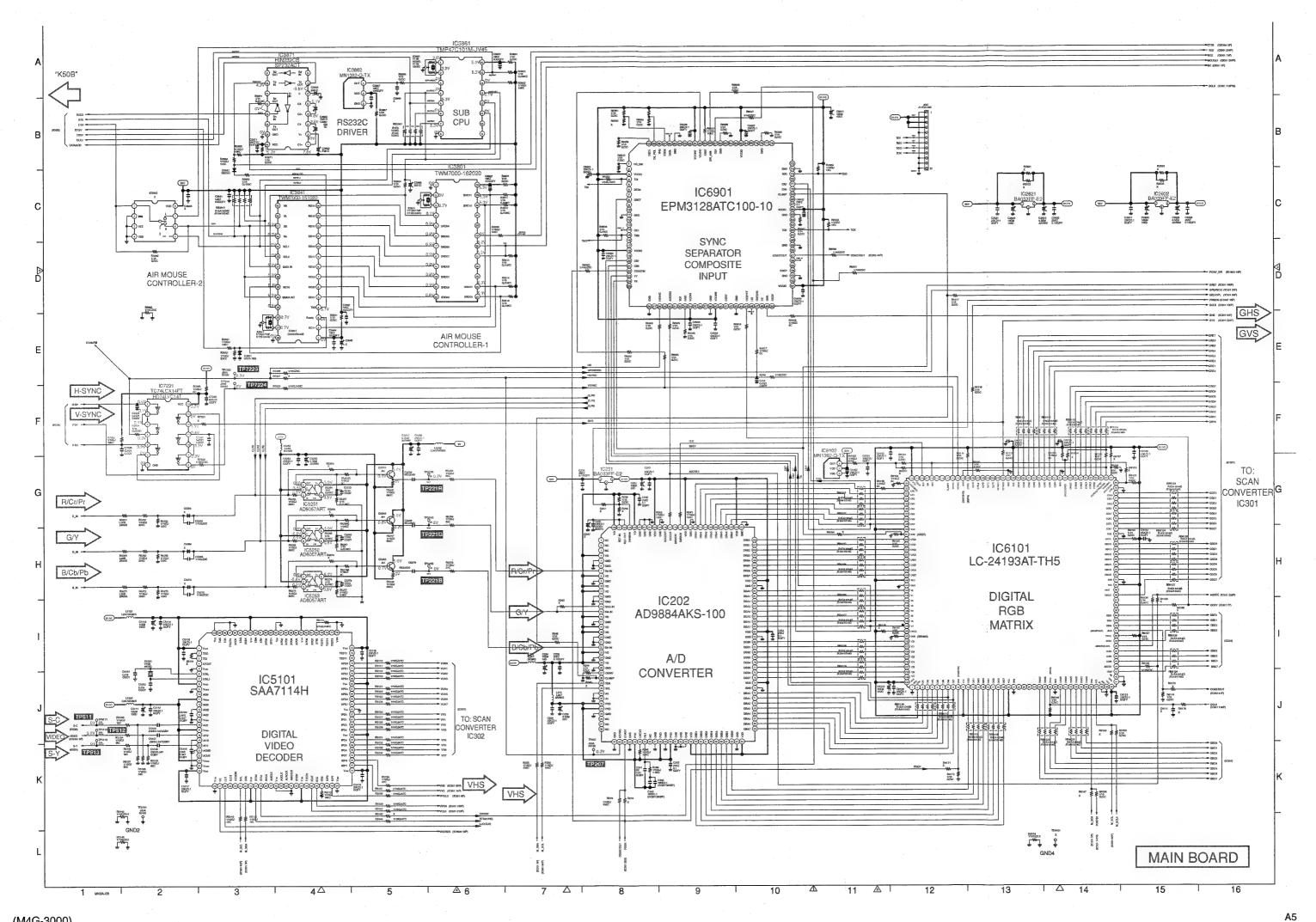
Part must be placed in specified direction when replacing the optical parts. Please see "Optical Parts Disassemblies" for further instructions.

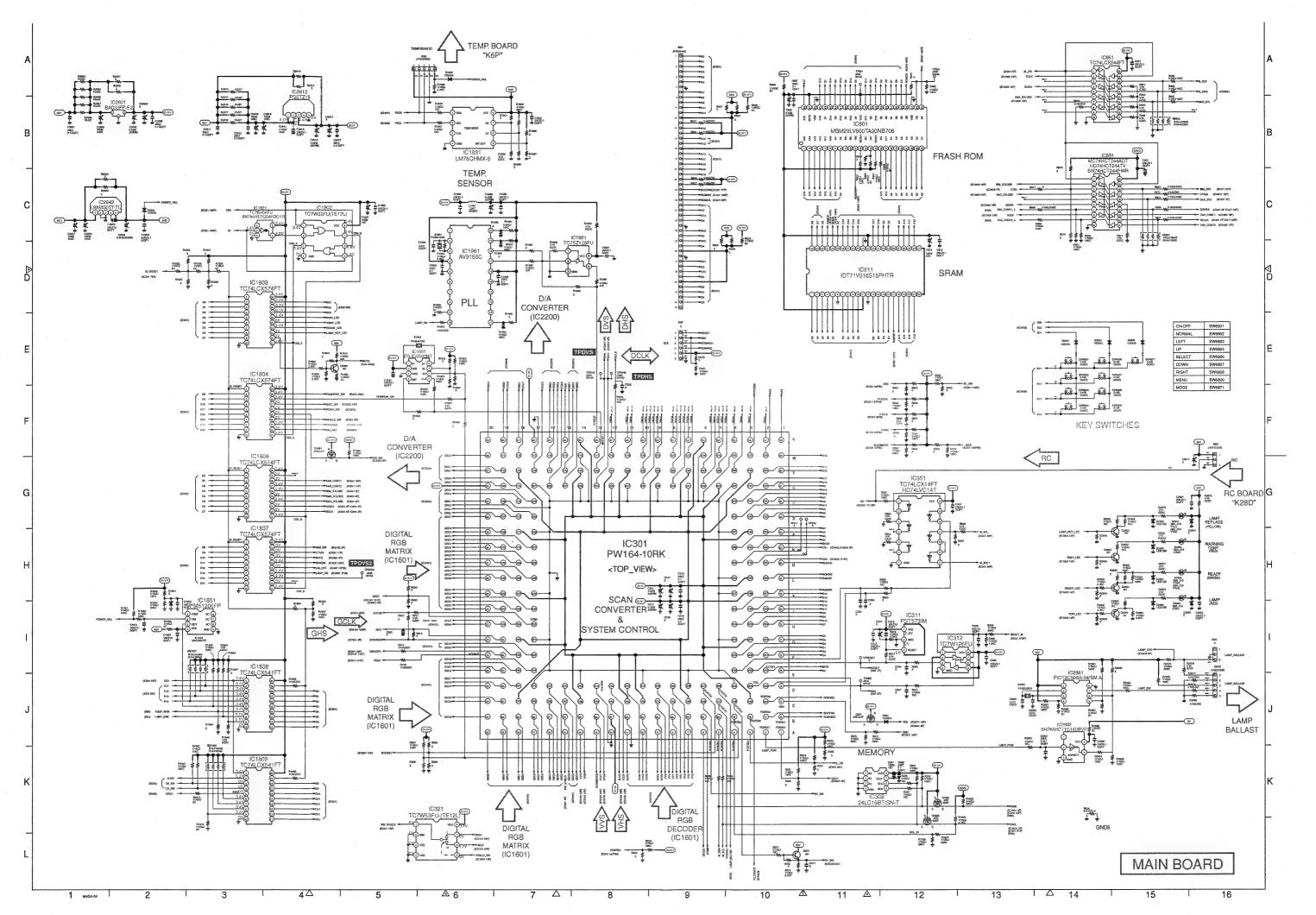


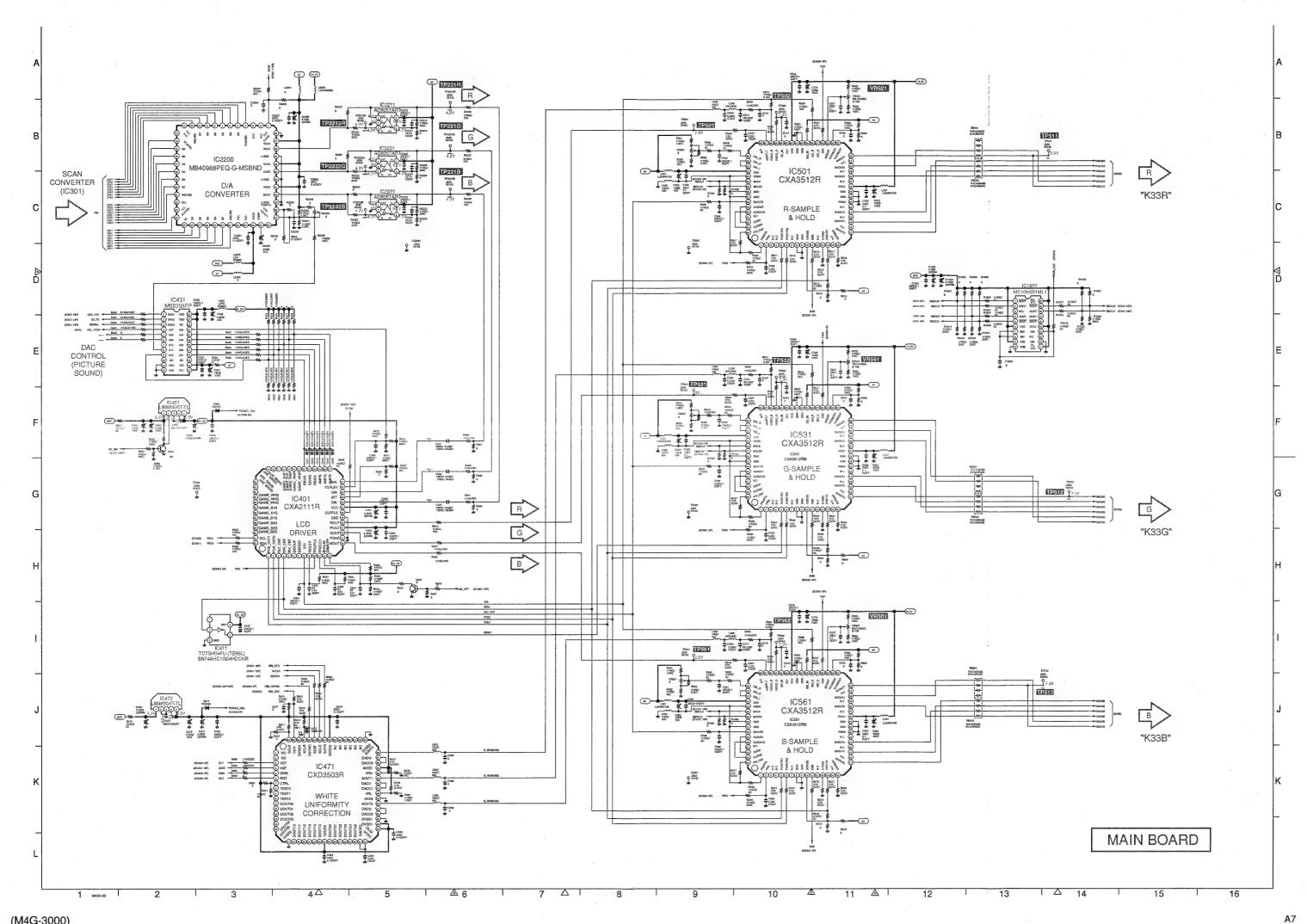


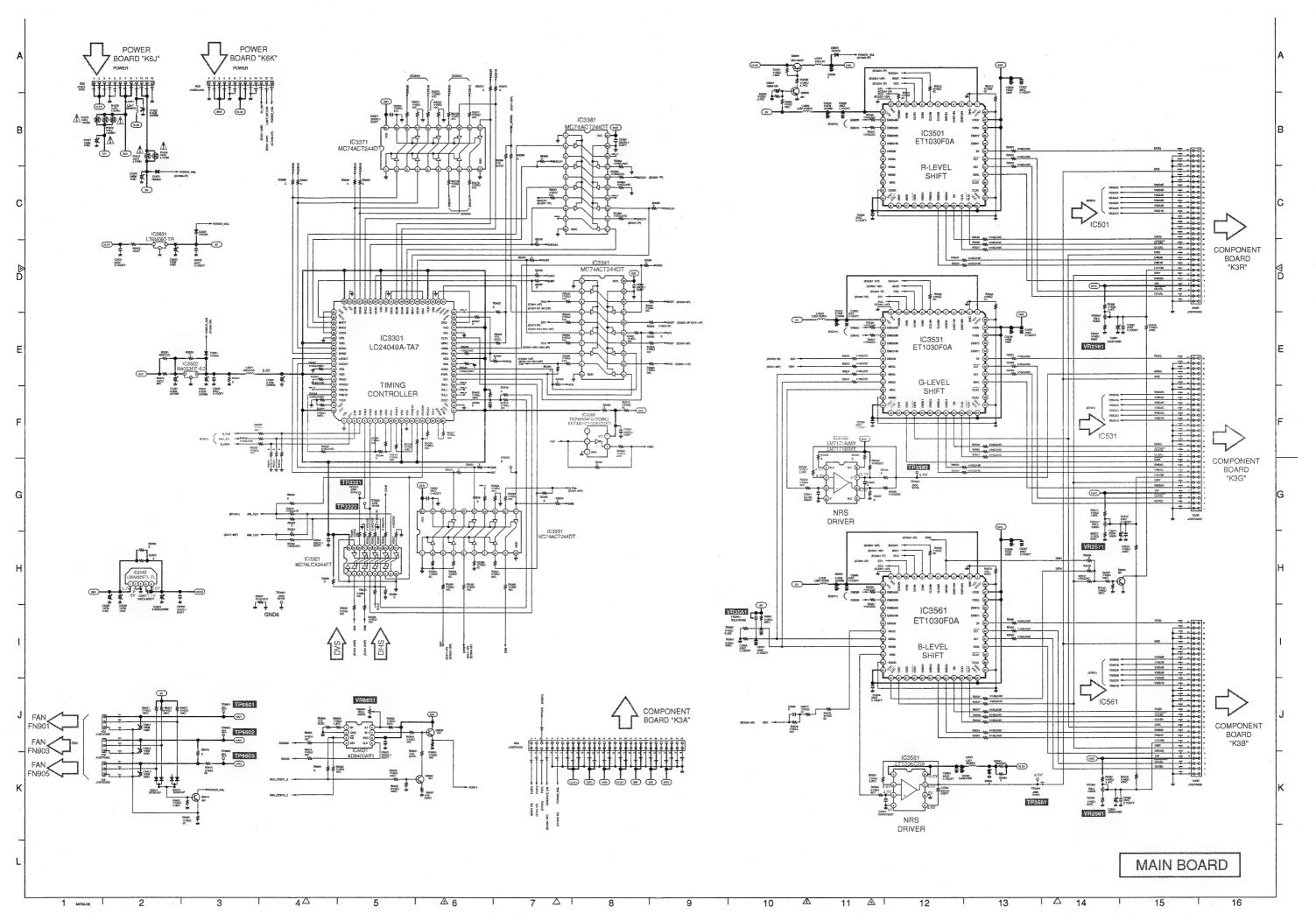


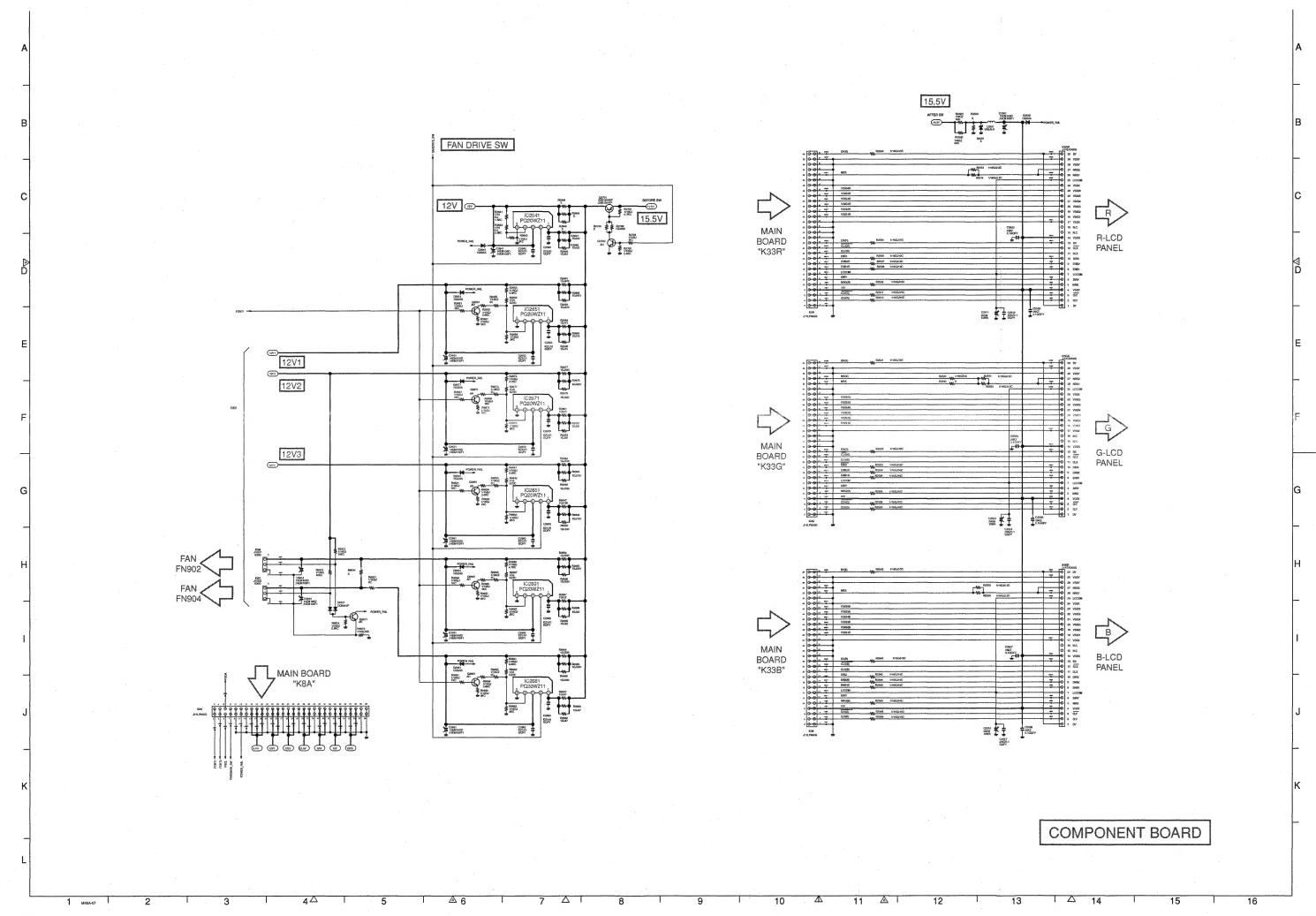












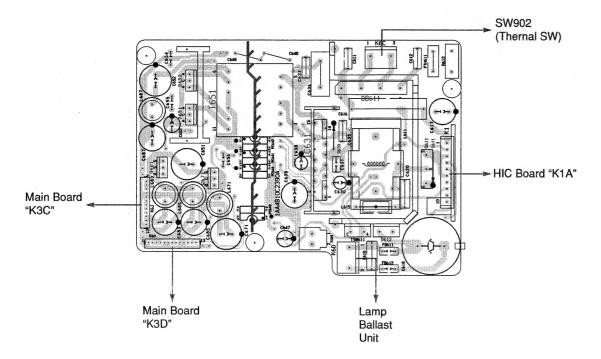
■ Printed Wiring Board Diagrams (PLV-30)

⚠ CAUTION

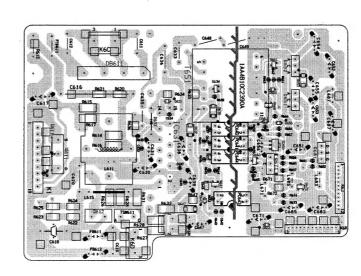
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

- 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary
- 2. Do not shorten the circuit between hot and cold sides.
- 3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

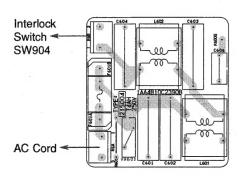
Power Board (SIDE:A)



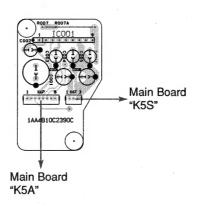
Power Board (SIDE:B)



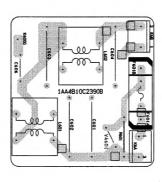
Line Filter Board (SIDE:A)



Audio Amp Board (SIDE:A)



Line Filter Board (SIDE:B)



Audio Amp Board (SIDE:B)



HIC Board (SIDE:A)

Main Board "K1"



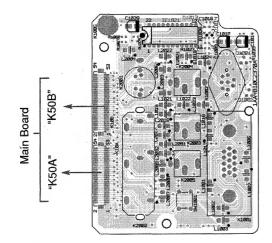
Temp Board (SIDE:A)

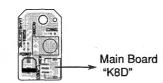


HIC Board (SIDE:B)

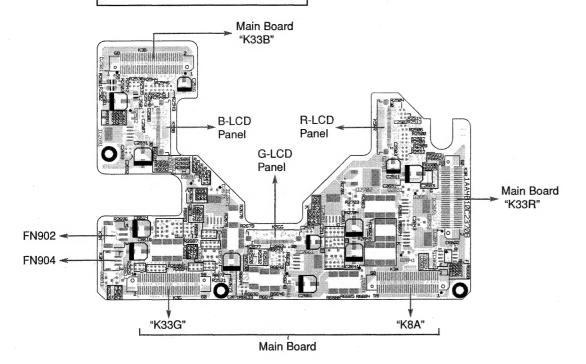
Temp Board (SIDE:B)

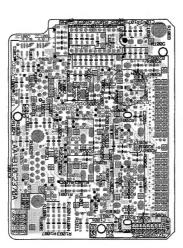






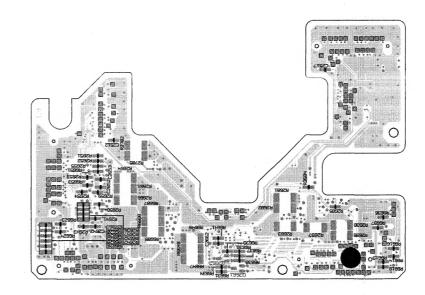
Component Board (SIDE:A)







Component Board (SIDE:B)



Main Board (SIDE:A)

